



# भारत का राजपत्र

## The Gazette of India

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नई दिल्ली, शनिवार, जून 11, 1988 (ज्येष्ठ 21, 1910)

No. 24] NEW DELHI, SATURDAY, JUNE 11, 1988 (JYAIKTHA 21, 1910)

(इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके)

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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Calcutta, the 11th June 1988

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**CORRIGENDUM**

In the Gazette of India Part III, Section-2 dated 28th November, 1987 under the heading complete specification accepted in Column-2 of page 1201 in respect of Patent No. 161395.

Insert :—Addition to Patent application No. 793/Cal/83 filed on 25th June, 1983.

**APPLICATION FOR PATENTS FILED AT  
THE HEAD OFFICE  
234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20**

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 4th May 1988

363/Cal/88. General Electric Company. Method and apparatus for induction motor drive.

The 5th May 1988

364/Cal/88. Institut Problem Modelirovania V Energetike Akademii Nauk Ukrainskoj SSR. Optical storage device.

365/Cal/88. University of Florida. Peanut products and plant lines.

366/Cal/88. Eaton Corporation. Semi-automatic mechanical transmission control display and fault indicator. (Convention dated 14th May, 1987 (8711329) U. K.)

367/Cal/88. Dr. Binod Kumar Verma. A process of obtaining improved Neem Seed Animal Feed stock or feed stock supplement.

The 6th May 1988

368/Cal/88. IEL Limited. Process for the production of novel polymeric isocyanates useful in the preparation of polyurethanes.

369/Cal/88. Samar Singh Nahar. Protective plastic toe caps.

370/Cal/88. Kievsky Nauchno-Issledovatelsky Institut Neurokhirurgii. Occluding device.

371/Cal/88. (1) Vyacheslav Serafimovich Politov; (2) Alexandr Nikolaevich Fedorov. Impeller of reversible centrifugal fan.

372/Cal/88. Smt. Suranjana Roy. Method of preparing controlled release delivery system.

373/Cal/88. The Babcock & Wilcox Company. Enhanced automatic line build out.

374/Cal/88. Outboard Marine Corporation. "Y" equal length exhaust system for two-cycle engines.

375/Cal/88. Norsolor. Thermoplastic compositions, process for preparing them and their application in the production of industrial articles.

The 9th May, 1988

376/Cal/88. Abhijit Chakraborti and Ashok Kumar Mukhopadhyay. A. C. transmission line simulator.

377/Cal/88. Hoechst Aktiengesellschaft. Water-soluble monoaxo naphtholacarboxylic acid compounds, processes for their preparation and their use as dyestuffs.

The 10th May 1988

378/Cal/88. Satis Lakhota. Folding hat.

**APPLICATION FOR PATENTS FILED AT  
THE PATENT OFFICE BRANCH  
MUNICIPAL MARKET BUILDING, THIRD FLOOR  
KAROL BAGH, NEW DELHI-5**

The 4th April 1988

265/Del/88. Harkundan Singh Marwaha, "Device for rotating and setting television antenna in more than one direction".

266/Del/88. Gurdeep Singh Johar, "A process for the manufacture of moustache wax (Moustache twisting cosmetic)".

267/Del/88. Bharat Heavy Electricals Limited, "Vertical hydrodynamic thrust and guide bearing".

268/Del/88. The northern territory of Australia, Christopher Leon Ogle & Ann Louise land, Mobile chair and seat form". (Convention date April 7, 1987, June 22nd, 1987 February 3, 1988 & February 10, 1988) (Australia).

269/Del/88. Orbital Engine Company Proprietary Limited, "Improvements relating to fuel injection systems for engines". (Convention date April 3, 1987, July 20, 1987 & October 26, 1987) (Australia).

The 5th April 1988

270/Del/88. Shri Ram Fibres Limited, "A high impact polyamide moulding composition".

271/Del/88. Shri Ram Fibres Ltd., A process for the preparation of powder coatings of microcrystalline polymer".

272/Del/88. Solvay & Cie, "Process for the stereospecific polymerization of alpha-olefins and catalytic system which is usable for this polymerization".

273/Del/88. B. B. C., "A method and device for disinfecting utensils".

274/Del/88. The B. F. Goodrich Company, "A process for pelletizing vinyl chloride homopolymer and glass fibres and a process for producing a shaped article". [Divisional date July 8, 1985].

275/Del/88. Imperial Chemical Industries Plc., "Catalytic combustion". (Convention date 13th April, 1987) (U. K.).

276/Del/88. Fosroc International Ltd, "Cementitious compositions". (Convention date April 8, 1987) (U. K.).

The 6th April 1988

277/Del/88. Endocon, Inc., "Flash flow fused medicinal implants".

278/Del/88. Endocon, Inc., "Dispensing paste for forming medicinal pellets".

279/Del/88. Union Rheinische Braunkohlen Kraftstoff AG, "Process for the prevention or reduction of deposits in carburetors, injection devices and similar devices of engines".

280/Del/88. Donwale Pty. Ltd., "An improved fastener".

281/Del/88. Balcke Durr Aktiengesellschaft, "Method for welding branch pipes to a vessel wall in which holes have been made".

The 7th April 1988

282/Del/88. Bal Krishan Gupta, "Pilferproof bolt and nut with safety cap".

283/Del/88. Anuj Sangal, "Electronic indication transformer".

284/Del/88. Valery Borisovich Sholokhov & others, "Molecular vacuum pump".

285/Del/88. Union Carbide Corporation, "Composite membranes for enhanced fluid separation".

286/Del/88. Jean Gcorjon & Gaston Granger, Process and device for sterilizing the contents of containers made of a dielectric material".

287/Del/88. Signode Corporation, "Continuous treatment of cold rolled carbon manganese steel".

288/Del/88. Union Carbide Corporation, "Improved composite separation membranes and the preparation and use thereof".

289/Del/88. Cledisc International B. V., "Rotary drilling device". (Convention date April 21, 1987) (U. K.).

The 8th April 1988

290/Del/88. Digital Equipment Corporation, "Bus transmitter having controlled trapezoidal slew rate".

291/Del/88. Digital Equipment Corporation, "Bus adapter unit for digital data processing system".

292/Del/88. Mitsui Petrochemical Industries, Ltd., "Catalysts for catalytic pyrolysis of phenol distillation residue and process for recovering useful substances by pyrolysis the same".

293/Del/88. The Lubrizol Corporation, Basic metal dihydrocarblyphosphorodithioates".

294/Del/88. Eszamagyarországi Vegyművek, "Fungicidal compositions comprising A 2-O-/substituted/-alkyl/-2-thio-1, 3, 2-oxa-thiophospholane derivative and a process for the preparation of the active ingredients".

295/Del/88. Elf France, "Automatic process of validation of the measurements of a chromatograph and a system carrying out this process".

296/Del/88. B P Chemicals Ltd., "A thermoformable and crosslinkable thermoplastic polymeric composition and process for making the same". (Convention date July 20, 1984) (U. K.) & [Divisional date July 17, 1985].

297/Del/88. B P Chemicals Ltd., "A thermoformable and cross-linkable thermoplastic polymeric composition and process for making the same" (Convention date July 20, 1984) (U. K.) & [Divisional date July 17, 1985].

The 11th April 1988

298/Del/88. Bharat Heavy Electricals Ltd., "Vertical hydrodynamic thrust and guide bearing".

299/Del/88. The Gillette Company, "Razor blade assembly and handle therefor".

300/Del/88. Motorola, Inc., "Duplex analog scrambler".

301/Del/88. Morgan Construction Company, "Rolling mill laying head".

302/Del/88. Parker Manufacturing Company, "Tool for melting hot melt adhesive on an anchoring device".

303/Del/88. The Gillette Company, "Shaving cartridge retaining casings and storage tray therefor".

The 12th April 1988

304/Del/88. Sat Parkash Gupta, "Clamping thimble connector".

305/Del/88. Shri Ram Fibres Ltd., "A process for the preparation of microcrystalline asbestos".

306/Del/88. The Jay Engineering Works Ltd., "A laminations for use in electric motors".

307/Del/88. Metal Box P.L.C., "Pump chamber dispencer". (Conventional date 29th April, 1987) (U. K.).

308/Del/88. Samsonite Corporation, "Travel bag with combination pullhandle and auxiliary bag strap".

309/Del/88. Urban Transportation Development Corporation Ltd., "Truck for rail vehicle". [Divisional date 8th July, 1985].

310/Del/88. Urban Transportation Development Corporation Ltd., "Truck for rail vehicle". [Divisional date 8th July, 1985].

The 13th April 1988

311/Del/88. Ashutosh Sharma, "Method and apparatus for optical determination of sulphur dioxide in gases or dissolved in liquids".

312/Del/88. UOP INC., " $=\text{C}_5 + \text{C}_6$  paraffin isomerization process using an integrated feed and product fractionation zone".

313/Del/88. The Standard Oil Company, "Ammonoxidation of paraffins and catalysts therefor".

314/Del/88. Duracell International Inc., "Separator for electrochemicals cells".

315/Del/88. Ashland oil, Inc., "Improved process for the carboxylation of propylene".

316/Del/88. Kollmorgen Corporation, "Method for electrolessly depositing high quality copper". (Convention date 29th October, 1987) (U. K.).

317/Del/88. International Mobile Machines Corporation, "Base station for wireless digital telephone system".

The 14th April 1988

318/Del/88. Warner Lambert Company, "Razor head assembly method and process".

The 15th April 1988

319/Del/88. Giuseppe Baggio, "Vessel for cooking food and the like." [Divisional date 6th August, 1985].

The 18th April 1988

320/Del/88. Yellapragada Sambasiva Rao, "A rail fastening assembly".

321/Del/88. Yellapragada Sambasiva Rao, "A resilient clip for use in a rail fastening assembly".

322/Del/88. Prashanta Banerjee, "Design of cricket bat".

323/Del/88. Shell Oil Company, "Process for altering hydrogenated polymer compositions from high melt flow to low melt flow".

324/Del/88. The Standard Oil Company, "Epoxy fluorocarbon encapsulating method and article produced".

325/Del/88. L. B. Transmissions Meccaniche S. R. L., "Epicycloidal speed variator with integrated frame and control screw with double projection hand wheel".

The 19th April 1988

326/Del/88. Kailash Narayan Vakil, "An automatic siphonic system actuated by additional water from supply for flushing water closet, urinal, sink and the like".

327/Del/88. Vasant Kumar Chordia, "A yarn clearer device for use with textile winding machine".

328/Del/88. Vasant Kumar Chordia, "A yarn clearer device for use with textile winding machine".

329/Del/88. Vasant Kumar Chordia, "A yarn clearer device for use with textile winding machine".

330/Del/88. National Council for Cement and Building Materials, "Flyash rice husk ash bricks".

331/Del/88. Motorola, Inc., "Improved amplitude modulation stereophonic radio system".

332/Del/88. Exxon Chemical Patents Inc., "Polyolefine films". (Convention date 21st April, 1987) (U. K.).

333/Del/88. Council of Scientific and Industrial Research, "A two wire digital current type control signal transmission system for precisely controlling remotely located stepper motors".

334/Del/88. Council of Scientific and Industrial Research, "Improvements in or relating to the production of aluminium graphite composite by the liquid metallurgy technique".

335/Del/88. Council of Scientific and Industrial Research, "Air bearing supported air driven spindle head".

336/Del/88. Council of Scientific and Industrial Research, "A process for the preparation of 4-acetoxy-2-methyl-2-butenal".

337/Del/88. Council of Scientific and Industrial Research, "A process for the preparation of dioxygen complex of rhuthenium useful for photocatalytic decomposition of water into hydrogen and oxygen". [Divisional date 29th December, 1985].

The 20th April 1988

338/Del/88. The Lubrizol Corporation, "Gear lubricant compositions".

339/Del/88. Sum Industrial Coatings Private Ltd., "Apparatus for loading and unloading a carrier". (Convention date 30th July, 1984) (U. K.) & [Divisional date 30th July, 1985].

340/Del/88. Belorussky Gosudarstvenny Universitet Imeni V. I. Lenina, "Digital servo system".

The 20th April 1988

341/Del/88. Paul Wurth S.A., "Device for altering the cross-section at a pipe for pneumatic transport, and application to the injection of solid fuels into a shaft furnace".

The 21st April 1988

342/Del/88. Avtar Krishan, "Lens surfacing pad with improved attachment to tools".

343/Del/88. Allied Signal Inc., "Compositions of polyphenylene oxides and thermoplastic polymers".

344/Del/88. Norsk Hydro A. S., "Flexible container comprising several lifting means".

345/Del/88. Bayo Antwerpen N. V., "Process for the recovery of NO from the waste gas resulting from the production of ammonium nitrite".

346/Del/88. BP Chemicals Limited, "Process for the production of 2, 3-dimethyl butene-1 from propene". (Convention date 23rd April, 1987) (U. K.).

347/Del/88. Poludniowy Okreg Energetyczny Katowice Elektrownia Laziska & Przedsiębiorstwo Realizacji Budownictwa Energetycznego I Eksportu "Energobud" Zakład Rozruchu Urazadzen Energetycznych "Energorozruch", "Power unit control system".

The 22nd April 1988

348/Del/88. I. C. I. Francolor S. A., "Tanning agent".

349/Del/88. I. C. I. Francolor S. A., "Tanning agent".

350/Del/88. The Gillette Company, "Improvements in or relating to safety razors". (Convention date 8th May, 1987) (U. K.).

351/Del/88. Shell Oil Co., "Preparation of olefin polymerization catalyst component".

352/Del/88. BP Chemicals (Additives) Ltd., "Fuel composition containing an additive for reducing valve seat recession". (Convention date 23rd April, 1987 & 6th October, 1987) (U. K.).

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH AT TODI ESTATES IIIRD FLOOR, SUN MILL COMPOUND LOWER PAREL (WEST), BOMBAY-13

The 4th April 1988

89/Bom/88. Vithalbhai Jinabhai Patel, Kunjadia Bhikhhabhai Gordhanbhai & Sudhaben Lalitkumar Patel, Ghost Eliminator.

The 5th April

90/Bom/88. Ramful Karnavat. An Namakin making machine.

The 7th April 1988

91/Bom/88. Manju Agrawal. Improvements in or relating to Cigaratee or cigar or bidi.

92/Bom/88. Manju Agrawal. Mini pollution controller for automobiles.

93/Bom/88. Bharti Agrawal & Mohn Das Agrawal. Improved envelope type answer copies.

94/Bom/88. Sesha Srinivasan. Smoke eliminator and fuel economiser additive.

The 8th April 1988

95/Bom/88. Nirmal Singh Dharam Singh Maras. PVC Batten.

96/Bom/88. विमल विश्वकर्मा । दोहरे उपयोग वाला प्रृष्ठक विभान ।

97/Bom/88. विमल विश्वकर्मा । (दू इन बन) दोहरे उपयोग वाली झण्डी ।

The 12th April 1988

98/Bom/88. Mohan S/O Dr. Tej Narayanlal. Watercell to generate electric energy.

The 15th April 1988

99/Bom/88. Precision Mouldings Pvt. Ltd. An improved triple pilfer resistant closure for orifice or neck ring of container and the like.

100/Bom/88. Concept Engineering Pvt. Ltd. Mobile Toilet Van.

The 18th April 1988

101/Bom/88. Tapas Biswas. A pilfer-resistant single canula for disposable infusion set.

**APPLICATION FOR PATENTS FILED AT  
THE PATENT OFFICE BRANCH  
61, WALLUAH ROAD, MADRAS-2**

The 18th April 1988

242/Mas/88. K. Appukuttan Nair; J. Sobhana; A. Hari-krishna and S. Hema Latha. An input/output ratio reduction machine.

243/Mas/88. Lonza Ltd.. Process for the reduction of the ketene trimer content in crude dicteenc.

244/Mas/88. Sandvik AB. Tool assembly, tool components and method of assembling said components.

The 19th April 1988

245/Mas/88. BASF Aktiengesellschaft. Preparation of hydroxylammonium salts.

246/Mas/88. CIMA IMPIANTI S.p.A. Machine for vulcanizing tires with devices for collecting and unloading the tire being treated.

247/Mas/88. Claude Alain Gratzmuller. A three-way hydraulic valve.

The 20th April 1988

248/Mas/88. Sivasankaran Gopal & Pashupathi Kalasam.

249/Mas/88. Maschinenfabrik Rieter AG. A method of and device for starting the spinning of a yarn on a friction spinning device.

250/Mas/88. Maxwell Edhund Whisson. A parenteral device. (April 22, 1987; Australia).

The 21st April 1988

251/Mas/88. Grams Electronics Private Limited. Integrated fire warning and suppression system.

252/Mas/88. Claude Alain. A hydraulic jack with a system for checking the position of the piston.

253/Mas/88. Societe Nationale ELF Aquitaine (Production). A process for preparing an aqueous functional fluid, an aqueous functional fluid obtained by the process and a method of machining a metal using the aqueous functional fluid.

254/Mas/88. BRG Mechatronikai Vellelat. Tape-conveying system for forward and backward playing magnetic tape recorder.

255/Mas/88. BRG Mechatronikai Vellelat. Clutch arrangement, mainly for driving the tape-spindle of magnetic tape recorder.

The 22nd April 1988

256/Mas/88. Millmore Engineering Private Limited. Improvements in or relating to friction rice polisher.

257/Mas/88. Millmore Engineering Private Limited. Improvements in or relating to rice polishing machine.

258/Mas/88. Keeran Karunakaran Devanand. Improvements in or relating to stirling engines.

259/Mas/88. Institut Francais Du Petrole. A connection device for the mechanical and electrical connection of a multi-conductor cable to a well probe.

260/Mas/88. Institut Francais du Petrole. A seismic prospection method providing improved knowledge of the geological discontinuities of the subsoil.

The 25th April 1988

261/Mas/88. Dana Corporation. Internal assisted clutch.

262/Mas/88. A Ahlstrom Corporation. Apparatus and methods for operating a fluidized bed reactor.

263/Mas/88. Mineral Engineering Technology (Proprietary) Limited. Wear Resistant surfaces.

264/Mas/88. Herman J. Schellstede, Hobert W. McQueen and Alan D. Peters. Improved hydraulic well penetration apparatus and method.

The 26th April 1988

265/Mas/88. Metal Casting Technology, Inc., Counter-gravity metal casting apparatus and process.

266/Mas/88. Metal Casting Technology, Inc., Apparatus and process for countergravity casting of metal with air exclusion.

267/Mas/88. Erwin Weh & Wolfgang Weh. Pressure-tight plug coupling.

The 27th April 1988

268/Mas/88. Minnesota Mining and Manufacturing Company. Encapsulated-lens retroreflective sheeting having improved cover film.

269/Mas/88. Minnesota Mining and Manufacturing Company. Cellular, Encapsulated-lens high whiteness retroreflective sheeting with flexible cover sheet.

270/Mas/88. Shell Internationale Research Maatschappij B. V., Process for the preparation of hydrocarbons. (April 29, 1987; Great Britain).

The 28th April 1988

271/Mas/88. Owens-Illinois Plastic Products Inc., Selfdraining container.

272/Mas/88. Owens-Illinois Plastic Products Inc., Plastic container with self-draining feature.

273/Mas/88. Owens-Illinois Plastic Products Inc., Plastic container with self-draining feature.

274/Mas/88. Chakrapani Swaminathan. A portable folding type umbrella/tent frame.

The 29th April 1988

275/Mas/88. Mysore Seshadri Sathyarayana and Mysore Seshadri Narayana. Reusable high energy lead acid cylindrical cells.

276/Mas/88. Merlin Gerin. Modular Circuit breaker with an auxiliary trip unit associated with a multipole circuit breaker unit.

277/Mas/88. Merlin Gerin. Sintered Composite Material for electrical contact and contact pad using said material.

**ALTERATION OF DATE**

162550.

(204/Cat/87)

Ante dated to 23rd November, 1983.

**COMPLETE SPECIFICATION ACCEPTED**

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**CLASS : 143-D<sub>c</sub> 162541**

**Int. Cl. : B 65 d 65/02.**

**A WOODEN PLATE SUCH AS A TABLE TOP, COVER PLATE FOR LARGE ELECTRICAL EQUIPMENT.**

Applicant & Inventor : (1) MAX MEIER, OF LANDSTRASSE 14, D-7585 LICHTENAU-SCHERZHEIM, FEDERAL REPUBLIC OF GERMANY. (2) KARL-HEINZ MEIER, OF LANDSTRASSE 14, D-7585 LICHTENAU-SCHERZHEIM, FEDERAL REPUBLIC OF GERMANY.

Application No. 499/Cal/84 filed July 10, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**10 Claims**

A wooden plate, such as a table top, cover plate for large electrical equipment, or the like, with a plate part and a thermoplastic material edging sprayed onto the areas of cut thereof under pressure, wherein the edging surrounding the plate part has a projection extending a long way downwards and which extends the zone covering the areas of cut and wherein an upper outer edge of the plate part is overlapped by a thick plastic material accumulation and a web engaging below the plate is shaped onto the projection.

Compl. Specn. 12 pages.

Drg. 1 sheet.

**CLASS : 162542**

**Int. Cl. : D 01 g 15/00.**

**AN IMPROVED DELIVERY CONDUCTOR FOR JUTE CARDING MACHINES.**

Applicant : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, 17, TARATOLA ROAD, CALCUTTA-700 088, WEST BENGAL, INDIA.

Inventors : 1. UTFULLA MUKHOPADHYAY, 2. SRI SAMARENDRA NATH BHATTACHARYYA.

Application No. 506/Cal/84 filed July 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims**

An improved delivery conductor for jute carding machines wherein the said delivery conductor has an asymmetric shape and construction characterised in that the two sides connected to the delivery end of the conductor make two different angles with the base or input side of the conductor so that the ratio of the said angles is not one and further that one of the said two sides is connected to the delivery end of the conductor at a level different from that of the other side.

Compl. Specn. 6 pages.

Drgs. 3 sheets.

**CLASS : 29-A.**

162543

**Int. Cl. : G 11 c 7/00.**

**AUTOMATIC MEMORY BOARD RECONFIGURATION.**

Applicant : TANDEM COMPUTERS INCORPORATED, OF 19333 VALCO PARKWAY, CUPERTINO, CALIFORNIA 95014, UNITED STATES OF AMERICA.

Inventors : 1. ROBERT WHITING HORST, 2. RICHARD MATTHEW COLLINS, 3. GILBERT EUGENE LAUER.

Application No. 692/Cal/84 filed September 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**2 Claims**

Apparatus for automatically reconfiguring the memory address structure of a data processing system having a plurality of memory circuit boards each with a plurality of memory devices, including :

nonvolatile memory means on each memory circuit board for storing information about the memory size and its default address range of that memory board;

processor means for reading the contents of said non-volatile memory means, collecting said contents in temporary storage means, creating an address space assignment for each memory board, and writing said address space assignment to each memory board;

configuration register means on each memory board for storing said address space assignment;

comparison means on each memory board for comparing address asserted on the memory bus of said data processing system with said address space assignment;

enabling means on each memory board responsive to said comparison means for enabling access to selected ones of said memory devices on that board.

Compl. Specn. 16 pages.

Drgs. 4 sheets.

**CLASS : 105-C.**

162544

**Int. Cl. : G 06 k 17/00.**

**HARDWARE FOR MICROBRANCHING SYSTEM.**

Applicant : TANDEM COMPUTERS INCORPORATED, OF 19333 VALCO PARKWAY, CUPERTINO, CALIFORNIA 95014, U. S. A.

Inventors : 1. ROBERT WHITING HORST, 2. RICHARD LEE HARRIS.

Application No. 693/Cal/84 filed September 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

Hardware for performing microbranching in a central processing unit of a data processing system including :

- means for holding a first address for the next sequential microinstruction to be executed;
- means for holding a second address for a fast micro-branch;
- means for holding a third address for a slow micro-branch;
- selection means for selecting one of said first, second and third addresses, and placing it on a control store address bus;
- means for controlling said selection means in response to test conditions selected by microcode.

Compl. Specn. 20 pages.

Drgs. 5 sheets.

CLASS : 105-C.

162545

Int. Cl. : G 06 k 17/00.

## MULTIPLE DATA PATH CPU SYSTEM.

Applicant : TANDEM COMPUTERS INCORPORATED, OF 19333/VALICO PARKWAY, CUPERTINO, CALIFORNIA 95014, U. S. A.

Inventors : 1. ROBERT WHITING HORST, 2. SHANNON JOSEPH LYNCH, 3. CIRILLO LINO COSTANTINO.

Application No. 694/Cal/84 filed September 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A pipelined CPU system for use in data processing systems including :

- arithmetic logic means in a first data path for performing arithmetic logic processes on operands;
- a plurality of selectable special function means in a second data path for processing operands;
- a plurality of first register means for storing operands to be processed;
- a plurality of first multiplexer means for choosing selected ones of said operands from said first register means;
- a plurality of second register means connected to said first multiplexer means for storing said selected ones of said operands;
- a plurality of second multiplexer means for further choosing among said selected ones of said operands and placing them on said first and second data paths; and
- bus means for returning results from said arithmetic logic means and said special function means to said first and second register means.

Compl. Specn. 18 pages.

Drgs. 4 sheets.

CLASS : 32-F<sub>2</sub> (a).

162546

Int. Cl. : C 07 c 91/44.

## PROCESS FOR THE PREPARATION OF 5-HYDROXYETHYLSULFONYL-2-AMINOPHENOL AND ETHERS THEREOF.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. THEODOR PAPENFURS.

Application No. 809/Cal/84 filed November 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A process for the preparation of a 5-hydroxyethyl-sulfonyl-2-aminophenol and ethers thereof of the formula (I) of the accompanying drawings

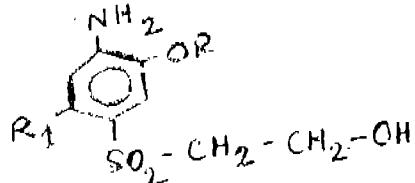


Fig. I

in which R denotes a hydrogen atom or an alkyl group with 1-4 carbon atoms and R<sub>1</sub> denotes a hydrogen atom or an alkyl or alkoxy group with in each case 1-4 carbon atoms, which comprises condensing at a temperature of 50°C to 90°C a 5-chloro (or bromo)-2-nitrophenol or alkyl ether thereof of the formula (II)

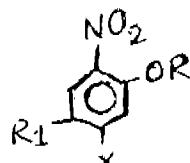


Fig. II

in which R and R<sub>1</sub> have the abovementioned meanings and X denotes a chlorine or bromine atom, with thioglycol to give a 2-nitrophenol (ether) 5-hydroxyethyl-sulfide of the formula (III)

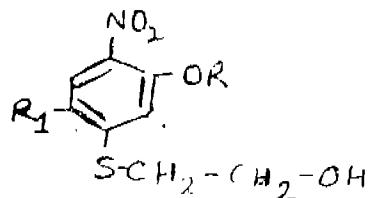


Fig. III

in which R and R<sub>1</sub> have the abovementioned meanings oxidizing this product with hydrogen peroxide in aqueous solution or suspension at a pH range of 4-6 preferably without intermediate isolation, to give a 5-hydroxyethylsulfonyl-2-nitrophenol (ether) of the formula (IV)

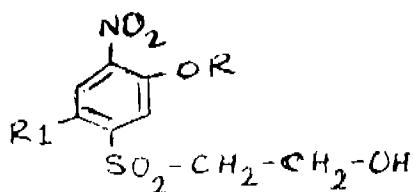


Fig. IV

and reducing the latter in a manner known per se to give a compound of the above formula (I).

Compl. Specn. 20 pages.

Drg. 1 sheet.

CLASS : 32-F<sub>3</sub> (b).

162547

Int. Cl. : C 07 c 37/44, 65/16, 69/14.

## PROCESS FOR SEPARATING 6-HYDROXY-2-NAPHTHOIC ACID FROM ITS ISOMERIC HYDROXYNAPHTHOIC ACIDS.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. RUDOLF NEEB, 2. WOLFGANG TRO-NICH, 3. HEINRICH VOLK.

Application No. 124/Cal/85 filed February 21, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A process for separating 6-hydroxy-2-naphthoic acid from its isomeric hydroxynaphthoic acids, in particular from 3-hydroxy-2-naphthoic acid, in the form of its 6-acetoxy-2-naphthoic acid, which process comprises reacting an aqueous alkaline solution of the alkali metal salts of 6-hydroxy-2-naphthoic acid and of the isomeric hydroxynaphthoic acids with acetic anhydride at a pH of 10 or higher and at a temperature below 60°C, and precipitating the resulting 6-acetoxy-2-naphthoic acid at a pH between 6.0 and 4.0 and isolating it.

Compl. Specn. 16 pages.

Drg. Nil.

CLASS : 128-H.

162548

Int. Cl. : A 61 f 5/46.

#### PLATFORM PESSARY FOR GENITAL PROLAPSE.

Applicant & Inventor : DR. BRAJA GOPAL HALDER, 60, DR. SUNDARI MOHAN AVENUE, CALCUTTA-700 014, WEST BENGAL, INDIA.

Application No. 169/Cal/85 filed March 6, 1985.

Complete Specification left on 9th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 2 Claims

Platform pessary for genital prolapse comprising a substantially oval-shaped sheet of vulcanised rubber of 5 mm. thick and having a tensile strength of 122 to 128 kg/cm<sup>2</sup> and elongation at break at 500Kg/cm<sup>2</sup> with an arc-shaped notch at its anterior and a round circular hole in the middle, wherein the edge of the said circular hole is bevelled from top down to fit the cervix snugly and the edges of the bottom surface of the pessary are bevelled.

Provl. Specn. 4 pages.

Drg. Nil.

Compl. Specn. 5 pages.

Drg. 1 sheet.

CLASS : 80-I.

162549

Int. Cl. : C 02 b 1/00.

#### IMPROVEMENTS IN OR RELATING TO AN APPARATUS FOR REMOVAL OF IMPURITIES FROM LIQUID MEDIA.

Applicant & Inventor : SUSHIL KUMAR GOEL, OF RAMABHAWAN, RAMANA ROAD, GAYA, BIHAR, INDIA.

Application No. 467/Cal/85 filed June 24, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

An improved apparatus for removal of impurities from liquid media which comprises in combination :

- (i) a main body having top and bottom portions larger in dimension than the said main body, the inside space of which is adapted to be filled with filtering medium(s),

(ii) means for introducing liquid media into the said inside space, which is firmly affixed to the said top portion through a housing and extends into the said filtering medium(s); and

(iii) means for taking out purified liquid media after being allowed to come in contact with the filtering media, which is firmly affixed to and extends through another housing in the top portion substantially upto the bottom of the said main body and the lower end thereof is detachably fitted with means for eliminating suspended impurities from the filtered liquids.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 33-D; 108-C; 130-F.

162550

Int. Cl. : B 22 d 27/00; C 21 c 7/02, 7/04, 7/06.

#### A WIRE INJECTION OBTURATOR.

Applicant : INJECTALL LIMITED, OF ABBEY HOUSE, 453, ABBEY LANE, SHEFFIELD S7 2RA, ENGLAND.

Inventors : 1. KENNETH WILLIAM BATES, 2. WILLIAM ALBERT GRIFFITHS.

Application No. 204/Cal/87 filed March 11, 1987.

Division of Application No. 1440/Cal/83 dated 23rd November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A wire injection obturator for use in an injection device having a tubular member for guiding a wire or rod of an alloying substance into a melt melt, the obturator comprising a metal body having a solid cylindrical nose portion of a predetermined diameter, and a plurality, say four, legs internal therewith, which legs extend away from the nose portion and are bent outwardly, from one another for frictionally engaging the tubular member.

Compl. Specn. 45 pages.

Drgs. 6 sheets.

CLASS : 14-C.

162551

Int. Cl. : H 01 m 2/00.

#### APPARATUS FOR ASSEMBLING BATTERY CELL ELEMENTS.

Applicant : GNB BATTERIES INC., OF 1110 HIGHWAY 110, MENDOTA HEIGHTS, MINNESOTA 55118, UNITED STATES OF AMERICA.

Inventor : 1. DOUGLAS ROBERT SAVAGE.

Application No. 71/Cal/84 filed February 1, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 23 Claims

An apparatus for assembling battery cell elements having a plurality of electrode plates of alternating polarity separated by a continuous interleaved separator sheet comprising :

an element assembly drum mounted for rotating movement about a central axis and formed with plate receiving means about the periphery thereof,

means for rotatably driving said drum,

a first electrode plate supply station where first electrode plates of common polarity are positioned into plate receiving means of said drum as said drum is rotated with said drum supporting and carrying said first plates,

a separator-sheet supply station where a strip of separator sheet is positioned over said first plates carried by said drum as said drum is rotated with said sheet assuming an accordian-folded configuration defining downwardly-opening folds each encompassing a respective one of said first plates and alternate upwardly-opening folds therebetween,

a second electrode plate supply station where second electrode plates of common polarity opposite to said first plates are positioned in said upwardly-opening sheet folds as said drum is rotated, and

an element-stack discharge station where said separator sheet is continuously removed from said rotating drum with said first and second plates occupying alternate folds on opposite sides thereof.

Compl. Specn. 23 pages.

Drgs. 3 sheets.

CLASS : 13-D & 50-B.

162552

Int. Cl. : A 45 f 3/16, 3/46;

A 47 i 47/14;

#### SELF-COOLING WATER BOTTLE.

Applicant & Inventor : SRUTI BANDOPADHAY AND SWATI BANDOPADHAY BOTH OF 144, JODHPUR PARK, CALCUTTA-700 068, WEST BENGAL INDIA.

Application No 120/Cal/84 filed February 21, 1984.

Complete Specification left on 21 March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A self-cooling water bottle comprising a container for water or any other drinking liquid, the top end whereof is open and adapted to be covered by a leak-proof cover, and the wall(s) whereof is (are) provided with minute holes, said container having its said wall(s) fully wrapped with a light-fitting thin sleeve of porous material, such as herein described, and said sleeve being fully covered by a protective cover having relatively large holes compared to said minute holes in the wall(s) of the container.

Provl. Specn. 8 pages.

Drg. 1 sheet.

Compl. Specn. 11 pages.

Drg. Nil.

CLASS : 40-A<sub>2</sub> + 77-C.

162553

Int. Cl. : C 11 c 3/14.

#### PROCESS FOR THE MANUFACTURE OF CONJUGATED POLYENOIC FATTY COMPOUNDS.

Applicant : IEL LIMITED, FORMERLY KNOWN AS INDIAN EXPLOSIVES LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventors : 1. AMITABHA BASU, 2. SUMIT BHADURI, 3. TUKARAM GOVIND KASAR.

Application No. 141/Cal/84 filed February 25, 1984.

Complete Specification left on 3rd May, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 15 Claims

A process for the manufacture of conjugated polyenoic fatty compounds from the corresponding non-conjugated poly-unsaturated fatty compounds which comprises contacting a polyunsaturated triglyceride, fatty acid or fatty acid ester with a catalyst selected from cationic complexes

2—107GI/88

of transition metals of Group VIII, said complexes having the Formulae I to VIII as defined herein, the contacting being effected in the presence of a solvent of the kind such as herein described.

Provl. Specn. 7 pages.

Compl. Specn. 19 pages.

Drg. Nil.

Drg. Nil.

CLASS : 31-C.

162554

Int. Cl. : B 28 d 5/06.

#### SEMICONDUCTOR DEVICES AND METHOD OF FABRICATING SAME.

Applicant : RCA CORPORATION, OF 30 ROCKEFELLER PLAZA, NEW YORK, NEW YORK 10020, UNITED STATES OF AMERICA.

Inventor : 1. LUBOMIR LEON JASTRZEBSKI.

Application No. 476/Cal/84 filed July 4, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 15 Claims

A semiconductor device comprising a substrate composed by a diamond-cubic semiconductor wafer having a major surface which is parallel to one of the 100 crystallographic planes, said wafer being aligned to a reference position utilizing a major orientation flat on the periphery thereof and having a rectilinear feature formed adjacent to said surface, said feature having edges which create stress risers in said major surface of said wafer and which are oriented at a multiple of 90° to said flat characterized in that said major orientation flat being parallel to one of the .001 directions which lie on said surface.

Compl. Specn. 14 pages.

Drgs. 2 sheets

CLASS : 90-K.

162555

Int. Cl. : C 03 b 5/02.

#### METHOD OF MAKING REFINED GLASSES IN A CONTINUOUS PROCESS AND DEVICE THEREFOR.

Applicant : SAINT-GOBAIN VITRAGE, LES MIROIRS, 18 AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE.

Inventors : 1. ROBERT NOIRET, 2. MICHAL ZORTEA.

Application No. 545/Cal/84 filed August 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 40 Claims

Method of making refined glass, in a continuous process, comprising a phase of fusion of the vitrifiable charge, to form a bath of a mass in fusion, in a fusion zone, followed by a refining phase comprising heating of the mass in fusion to a temperature allowing removal of bubbles, in a refining zone, characterised in that the mass in fusion moves under significant hydrostatic pressure from the fusion zone to the refining zone and is progressively brought, in continuous flow passing through said refining zone, to a low hydrostatic pressure in an overall ascending motion, substantially vertical, from the lower part of the bath to its surface, said flow then being diverted as a surface current in the direction of a station for removing refined glass, the temperature of said surface current being, at its origin, at least equal to the usual temperature for removal of bubbles, preferably corresponding to a viscosity of not more than 50 poises.

Compl. Specn. 32 pages.

Drgs. 2 sheets.

CLASS : 85-J.

Int. Cl. : F 27 b 3/20.

## IMPROVEMENTS IN METHODS OF ELECTRIC FUSION OF GLASS.

Applicant : SAINT-GOBAIN RECHERCHE, OF 39 QUAI LUCIEN LEFRANC, 93300 AUBERVILLIERS, FRANCE.

Inventors : 1. GERARD DOSSIER, 2. BERNARD MARTIN.

Application No. 621/Cal/84 filed September 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

Electric fusion furnace for a vitrifiable charge, the energy for fusion being dissipated by the Joule effect in the molten mass, comprising electrodes arranged vertically on the bottom of the furnace and fed with three-phase current, characterised in that the electrodes are distributed in a regular manner over the whole surface of the bottom in at least one ordered array comprising at least two lines of three equidistant electrodes, each of the latter being fed by one of the three phases designated respectively R, S and T, the order of the phases of the electrodes in the two lines being inverse (R, S, T and T, S, R) so that the two middle electrodes are in phase and the end electrodes are in different phases, the distance separating two electrodes of the same line being substantially equal to the distance separating the two lines.

Compl. Specn. 22 pages.

Drgs. 2 sheets.

CLASS : 6-A<sub>2</sub>; 36-A.

162557

Int. Cl. : F 04 d 15/00.

## ADAPTIVE GAIN COMPRESSOR SURGE CONTROL SYSTEM.

Applicant : THE BABCOCK &amp; WILCOX COMPANY, OF 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. MARION ALVAH KEYES IV. 2. JEREMY J. SHAFFER.

Application No. 244/Cal/85 filed April 2, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

An adaptive gain surge control system for a centrifugal compressor having an associated surge line and a bypass line comprising :

a controller for controlling the bypass line of the compressor having a variable gain setting;

first means for determining the distance between a surge control line and the compressor surge line;

second means for establishing a control signal in response to the distance for changing the gain of said controller; and

by pass valve control means connected to said controller for varying the amount of bypass across the compressor in response to the control signal therefrom.

Compl. Specn. 17 pages.

Drgs. 3 sheets.

CLASS : 50-F<sub>6</sub>.

162558

Int. Cl. : F 25 b 1/10.

## REFRIGERATION UNIT COMPRESSOR CONTROL.

Applicant : CARRIER CORPORATION, AT 6304 CARRIER PARKWAY, P. O. BOX 4800 SYRACUSE, NEW

162556

YORK 13221, UNITED STATES OF AMERICA.  
Inventor : 1. RICHARD GARY LORD.

Application No. 253/Cal/85 filed April 2, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A refrigeration system comprising at least two refrigerant loops or circuits, each said loop having a plurality of compressors adapted to compress gaseous refrigerant supplied thereto from an evaporator, each said loop or circuit having its own air-cooled condenser followed by an expansion valve, the said two expansion valves terminating at a common dual circuit cooler, the said refrigeration system further including a control system comprising a processor board and a relay board, wherein said processor board is in operational association with said relay board to load and unload the compressors, and wherein said processor board contains a micro processor adapted to receive and store information sent to it from other components in the system in operational association therewith, the outputs of said micro processor adapted to be fed as input controls to the relay board to control said compressors, the said micro compressor also adapted to have programmed therein two complete reversed loading sequences for loading the compressors, either of said two sequences being adapted to be randomly selected by the said micro processor to load the compressors to full load and wherein, the said micro processor is adapted to randomly select either of said two sequences to unload the fully loaded compressors.

Compl. Specn. 20 pages.

Drgs. 4 sheets.

CLASS :

162559

Int. Cl. : H 01 b 3/00, 19/00.

## A CYLINDRICAL MICA COMPOSITE AND METHOD OF FORMING THE SAME.

Applicant : ESSEX GROUP, INC., FORT WAYNE, INDIANA 46801 UNITED STATES OF AMERICA.

Inventors : 1. ARTHUR FRANCIS DOYLE, 2. DENNIS JOHN SKLARSKI.

Application No. 640/Cal/85 filed September 10 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A cylindrical mica composite comprising one or more mica paper layers having thickness of from 50.8 µm to 508 nm each impregnated with about 5 per cent to about 20 per cent by weight of a polysiloxane binder, said binder containing about 1 per cent to about 4 per cent by weight of compatible organic titanate and about 0.5 per cent to about 2 per cent by weight of a conventional metal naphthenate drier, the composite after being cured and shaped having a high density, fracture toughness, moisture resistance and thermal stability.

Compl. Specn. 17 pages.

Drg. 1 sheet

CLASS : 168-D

162560

Int. Cl. : F 21 q 3/00.

## ELECTRONIC FLICKERING ROAD DIRECTION INDICATOR FOR TWO WHEELERS (INCLUDING MINI MOTOR CYCLE/BIKE MOPED BICYCLES ETC).

Applicant : BRATENDRA NARAYAN MAJUMDAR OF G 183/2 N. R. AVENUE, NEWALIPORE, CALCUTTA-700053, WEST BENGAL, INDIA.

Inventor : 1. SRI RABINDRA NATH DAS.

Application No. 701/Cal/85 filed October 14, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An electronic flickering road direction indicator for two wheelers e.g. minimotor cycle/bike, mopeds, bicycles comprising a power pack with drycell batteries, a double throw switch which operates on one side at a time thereby eliminating chances of confusion of both side lamps flickering simultaneously, an electronic unit comprising resistors, condensers, transistors and at least two lamps connected properly, the arrangement being such that when the double throw switch is put on one side, the electronic units energised and pulsating frequent output from it, causes the lamps to flicker.

Compl. specn. 4 pages.

Drg. 2 sheets

CLASS : 40 H

162561

Int. Cl. : 4 B 01 D 53/00

PROCESS FOR PRECOVERING PURE CO AND PURE H<sub>2</sub>

Applicant : LINDE AKTIENGESELLSCHAFT, OF ABRAHAM-LINCOLN-STRASSE 21, D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY.

Inventors : BERND KANDZIORA, 2. SIEGFRIED MICHL, ALLAN WATSON.

Application for Patent No. 667/Mas/84 filed on 29th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

3 Claims

A process for recovering pure CO and pure H<sub>2</sub>, from a gas mixture which consists mainly of hydrogen and carbon monoxide and which is produced in reformer by endothermic catalytic oxidation of possibly desulfurized hydrocarbons in the presence of CO<sub>2</sub> as oxygen supplying component wherein the oxygen contained therein is subjected to catalytic reduction by either using the purge gas forming in the decomposition of the reforming gas or by using the reforming charge, the catalytic reduction being carried out either before or after the separation of CO<sub>2</sub> and separating pure H<sub>2</sub> and pure CO by pressure using method.

Compl. specn. 8 pages.

Drg. 2 sheets

CLASS : 70 A

162562

Int. Cl. : C 02 C 1/46, & C 23 B 11/02;

ELECTROCHEMICAL CELL

Applicant : COGENT LIMITED OF TEMPLE COURT, 11, QUEEN VICTORIA STREET, LONDON, EC 4N TP.

Inventors : JOHN PETER HOLMES, RODERICK WILSON FROUND.

Application for Patent No. 744/Mas/84 filed on 28th September, 1984.

Convention date on 29th September 1983/8326170/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

6 Claims

An electrochemical cell having wall means defining an annular flow passage for electrolyte solution and an inlet to and an outlet from the annular passage at opposite ends of the cell, the wall means comprising a tubular outer elec-

trode and an inner electrode which together define an intermediate zone in which the annular passage is of constant cross-section and end zones in which the annular passage progressively increases in cross-section to a maximum value thereof in a direction away from the intermediate zone and towards the inlet and the outlet, respectively, whereby the transverse separation of the electrodes in the end zones exceeds the transverse separation of the electrodes in the intermediate zone.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 85 I

162563

Int. Cl. : F 27 B—15/02.

AN APPARATUS FOR THE CALCINATION OF A PULVERIZED MINERAL MATERIAL

Applicant : FIVES-CAILL BABCOCK, A FRENCH BODY CORPORATE, 7 RUE MONTALIVET 75383 PARIS CEDEX 08, FRANCE.

Inventor : 1 JEAN-PIERRE HENIN, 2. PHILIPPE NIEL.

Application No. 832/Mas/84 filed November 5, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

7 Claims

An apparatus for the calcination of a pulverized mineral material, which comprises a fuel gasification device having a hearth chamber, a grate constituting the bottom of the chamber, said grate having at least one terminal portion longitudinally inclined which allows a fluidized bed to be set up, the depth of which decreases progressively from the lower end to the upper end of said grate portion, said upper end having means for discharging ashes, means for delivering pieces of a solid fuel to the hearth chamber to form a bed of the solid fuel pieces on the grate and means for blowing air into the hearth chamber through the grate so that a fluidized bed of the solid fuel pieces is formed on the grate and a flow of gaseous fuel entraining the finest solid fuel particles in suspension therein rises upwards from the bed, a calcination chamber, a conduit connecting the hearth chamber to the calcination chamber, means for mixing air and the pulverized mineral material with said flow of gaseous fuel, and an air cooler for cooling the calcined material.

Compl. Specn. 16 pages.

Drgs. 4 sheets

CLASS : 104 O., 40 F

162564

Int. Cl. : C 08 C 3/02.

PROCESS FOR PREPARING A PURIFIED RUBBER

Applicant : STAMICARBON B.V. (LICENSING SUBSIDIARY OF DSM), A DUTCH COMPANY, OF P.O. BOX 10, 6160 M.C. GELEEN, THE NETHERLAND.

Inventor : LUDOVICUS ANNA LEONARD KLEINTHENS.

Application for Patent No. 868/Mas/84 filed on 14th November 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

6 Claims

Process for preparing purified rubber from ethylene, alkene(s) having 3-8C atoms per group and one or more dienes which as herein described by known means characterized in that, per kg of impurities in the rubber, the rubber is treat-

ed for a period of from 1 minute—5 hours with 40—1500 Nm<sup>2</sup> (NPT) of an extractant having a critical temperature lower than 435 K, at a temperature between the critical temperature of the extractant and 600 K and a pressure between the critical pressure and 10 times the critical pressure of the extractant and recovering the prised rubber in a known manner.

Compl. specn. 10 pages

No drawing

CLASS : 136 E

162565

Int. Cl.<sup>4</sup> : C 08 J 5/18

**PROCESS FOR THE PRODUCTION OF PLASTICISER CONTAINING FOILS OF PARTIALLY ACETALISED POLYVINYL ALCOHOLS.**

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT, A GERMAN COMPANY OF POSTFACH 1209, 5210 TROISDORF, FEDERAL REPUBLIC OF GERMANY.

Inventors : DR ROLF BECKMANN.

Application for Patent No. 917/Mas/84 filed on 24th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

**2 Claims**

In an improved process for the production of foils of phenolically stabilised, plasticised, partially acetalised polyvinyl alcohols of oxidation temperature and light-stability, the improvement comprising the incorporation during the production of foils, of derivatives of benzotriazole, derivative of acrylonitrile or cinnamonnitrile, or hydroxyenzophenones such as herein defined, the incorporated amount of the said ingredients being limited to amounts of 0.01 to 0.40 weight %, preferably 0.03 to 0.30 weight %.

Compl. specn. 12 pages.

No Drg.

CLASS : 176 F

162566

Int. Cl.<sup>4</sup> : F 22 B 9/10.

**POWDERED-COAL BOILER WITH A FORE-HEARTH PRECEDING A FLUE.**

Applicant : CHARBONNAGES DE FRANCE (Etablissement public), OF 9 AVENUE PERCIER-75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventors : 1. GIRARDEAU GERARD, 2. SALOMEZ JEAN-MARE.

Application for Patent No. 974/Mas/84 filed on 11th December 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-600 002.

**9 Claims**

Powdered-coal boiler with a fore-hearth preceding a flue, this fore-hearth having an inner side wall surrounded by a cooling circuit and a front wall containing a feed in the centre of which a powdered-coal burner is mounted, wherein the cooling circuit of the fore-hearth is a coil with turns succeeding one another substantially over the entire length of this fore-hearth, this coil being connected at one end to a line supplying cooling water and at its other end to a discharge line, so as to maintain the temperature of the inner side wall of the fore-hearth between 600°C to 900°C.

Compl. specn. 11 pages

Drg. 3 sheets

CLASS : 32 F 2(b).

162567

Int. Cl. : C 07 D 307/02.

**PROCESS FOR THE PREPARATION OF TETRONIC ACID.**

Applicant : LONZA LIMITED, of Gampel/Valais Switzerland a Joint Stock Company organised under the laws of Switzerland.

Inventor(s) THOMAS MEUL, LEANDER TENUD AND ALFRED HUWILOER.

Application No. 52/MAS/85 filed January 22, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

**3 Claims**

Process for the preparation of tetronic acid from a C<sub>1</sub>—C<sub>6</sub> alkyl ester of 4-chloroacetoacetic acid or from benzyl 4-chloroacetoacetate, wherein an ester of 4-chloroacetoacetic acid is chlorinated with sulphuryl chloride at a temperature of from 0 to 40°C, to give the corresponding ester of 2, 4-dichloroacetoacetic acid which is converted into 3-chlorotetronic acid by heating to a temperature of from 110 to 160°C, and the 3-chlorotetronic acid is hydrogenated in water at a temperature of from 0 to 30°C, and at a pressure of from 3.5 to 20 ats in the presence of a palladium, platinum or rhodium catalyst in an amount of from 2 to 10% on a conventional carrier material to give tetronic acid.

Compl. Specn. 11 pages.

Drg. Nil.

CLASS : 55 E 4. & 83 A 1.

162568

Int. Cl.<sup>4</sup> : A 23 21/10 & A 61 J 3/00.

**PROCESS FOR THE PREPARATION OF A COMPOSITION BASED ON A FINELY DIVIDED ACTIVE PRINCIPLE SPARINGLY SOLUBLE IN WATER.**

Applicant : SOCIETE DES PRODUITS NESTLE S.A. OF CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A SWISS COMPANY.

Inventor : BIERRE HIRSBRUNNER.

Application for Patent No. 129/Mas/1986 filed on 25th February 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

**10 Claims**

A process for the preparation of a composition based on a finely divided active principle sparingly soluble in water comprising the active principle is mixed in a quantity of from 0.4 to 10% by weight with non-fat milk solids, preferably skimmed milk powder and in that the particles of said mixture are subjected to movement at a temperature comprised between 40 and 90°C.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 32-F.2(b).

162569

Int. Cl. C 07 d 31/20: 31/24.

**PROCESS FOR THE PREPARATION OF PYRIDINE DERIVATIVES.**

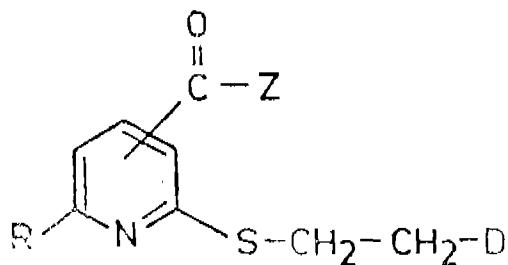
Applicant : IRCHTER GEDEON VEGYESZETI GYAR RT., A BODY CORPORATE ORGANISED UNDER THE LAWS OF HUNGARY, OF BUDAPEST X., GYOMROT UT 19/21, HUNGARY.

Inventors : (1) ELEMER EZER (2) KALMAN HAR-SANYI (3) HAJNALKA VIKAR NEE PETHO (4) JUDIT MATUZ (5) LASZLO SZPORNY (6) ESZTER CHOL-NOKY (7) CSABA KUTHI (8) FERENC TRISCHLER (9) BELA HEGEDUS (10) MARTA KAPOLNAS NEE PAP (11) ANNA KALLY NEE SOHONYAI.

Application No. 777/Mas/85 filed October 4, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

Process for the preparation of the compounds of the formula IA of the accompanying drawings wherein

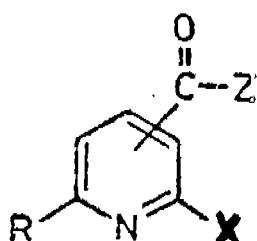


Formula (IA)

R is selected from hydrogen and alkyl having from 1 to 4 carbon atoms.

Z is selected from phenyl optionally substituted by one or more halogens, alkyl groups having from 1 to 4 carbon atoms; hydroxyl and amino.

D is selected from -NH-E group in which E is for a group of the formula a, b or c; hydroxyl and halogen and the substituent O is attached to position 3—

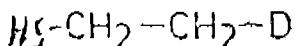


Formula (II)

or 4- of the pyridine ring

and acid addition salts thereof,

the process comprises reacting a compound of the formula II of the accompanying drawings, wherein X is a halogen atom.



Formula (III)

R and Z are as defined above,

with a compound of the formula III of the accompanying drawings, wherein

D is as defined above

or an acid addition salt thereof and recovering the compound of formula IA in a known manner and optionally converting it to its acid addition salts.

(Com.—24 pages; Drawgs.—3 sheets)

CLASS : 32-F.2(b)

162570

Int. Cl. C 07 d 31/20; 31/24.

#### PROCESS FOR THE PREPARATION OF 2-PYRIDINE-THIOL DERIVATIVES.

Applicant : RICHTER GEDEON VEGYESZETI GYAR RT., A BODY CORPORATE ORGANISED UNDER THE LAWS OF HUNGARY, OF BUDAPEST X. GYOMROI UT 19/21, HUNGARY.

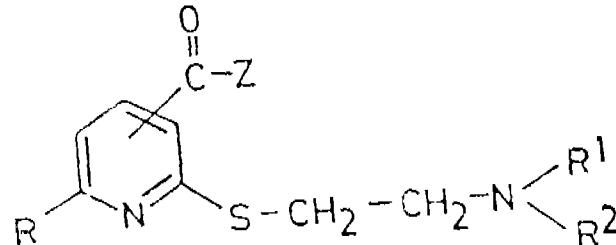
Inventors : (1) KLEMER EZER (2) KALMAN HAR-SANYI (3) HAJNALKA VIKAR NEE PETHO (4) JUDIT MATZ (5) LASZLO SZPORNY (6) ESZTER CHOL-NOKY (7) CSABA KUTHI (8) FERENC TRISCHLER (9) BELA GELEDUS (10) MARTA KAPOLNAS NEE PAP (11) ANNA KALLY NEE SOHONYAI.

Application No. 778/Mas/85 filed October 4, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 4 Claims

Process for the preparation of the compounds of formula (I) of the accompanying drawings.



Formula (I)

wherein R is hydrogen or alkyl having from 1 to 4 carbon atoms.

Z is phenyl optionally substituted by 1—2 halogen atoms or alkyl groups having from 1 to 4 carbon atoms.

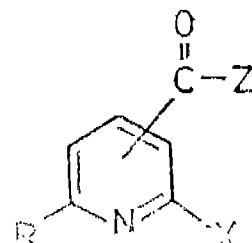
R<sup>1</sup> and R<sup>2</sup> each independently represent hydrogen, alkyl having from 1 to 4 carbon atoms, alkylphenyl having from 1 to 4 carbon atoms in the alkyl moiety or an alkylcarbenyl group having from 1 to 4 carbon atoms in the alkyl moiety, and the substituent —C--- Z is attached to the pyridine ring in the



position 3 or 4.

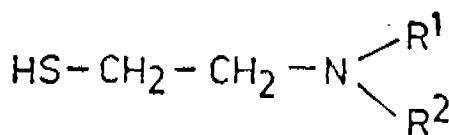
with the proviso that if R<sup>1</sup> and R<sup>2</sup> are both methyl and Z is 4-chlorophenyl, R is other than hydrogen, and acid addition salts thereof, which comprises

reacting a 2-halopyridine derivative of the formula (II) of the accompanying drawings,



Formula (II)

wherein R and Z are as defined above, and X is halogen, with the thio-compound of the formula (III) of the accompanying drawings or an acid addition salt thereof.



Formula (III)

(Com.—32 pages; Drawgs.—2 sheets)

CLASS : 189.

162571

Int. Class : A61k 7/00

#### DENTIFRICE COMPOSITION.

Applicant : COLGATE PALMOLIVE COMPANY, of 300 Park Avenue, New York, New York 10022, United States of America, a corporation organized under the laws of the State of Delaware, U.S.A.

Inventor : DIANA KALLIOPE KIOZPEOPLOU.

Application for patent No. 437/Del/82 filed on 8th June 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

A dentifrice composition comprising 20-80% by weight of a liquid humectant vehicle of the kind such as herein described, 0.5—7% by weight of xanthan gum and 1—10% by weight of a surface active agent, said surface active agent being a nonionic polyoxy ethylenepolyoxypropylene block copolymer surface active agent of the kind such as herein described.

(Complete specification 35 pages Drawing 1 sheet)

CLASS : 180. 162572

Int. Cl. : F24c, 15/18 & A47j, 37/00.

Title : A COOKING APPLIANCE.

Applicant : NIKY TASHA (INDIA) PVT. LTD., OF E 1&2 MAHAJAN HOUSE, NDSE II, NEW DELHI, INDIA, AN INDIAN COMPANY.

Inventor : RITU NANDA AND LADU RAM CHAUDHARY.

Application for Patent No. 543/Del/84, filed on 5th July, 1984 Complete Specification left on 7th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

#### 7 Claims

A cooking appliances comprising a cabinet having at least a first and a second burner head each connected to a fuel source through its respective regulating valve, a chamber provided in said cabinet and connected to the fuel source through its regulating valve, said chamber being usable as an oven characterized in a cover member secured to said cabinet, said cover member having a grilling means comprising a burner assembly and a platform, the burner assembly being adapted to be connected to a fuel source through its regulating valve, said burner assembly and platform being collapsible in character by each being secured to said cover member through hinge joints so that in its inoperative position the burner assembly and the platform are collapsed and disposed against or within said cover member.

Prov. Specn. 6 pages.

Compl. Specn. 12 pages.

Drgs. 3 sheets.

CLASS 66D/& 113F. 162573

Int. Cl. : H01K 1/00 & 1/42.

ELECTRICAL LAMP".

Applicant : THE GENERAL ELECTRIC COMPANY, PLC, A BRITISH COMPANY, OF 1 STANHOPE Gate, LONDON W1 A 1EH, ENGLAND AND ASHLEY JOHN RENHAM, A BRITISH SUBJECT, OF UNIT 4A, STAINTON GROVE INDUSTRIAL ESTATE, BERNARD CASTLE, COUNTRY DURHAM, DL12 8UJ, ENGLAND.

Inventors : LIONEL GEORGE TIMMINS & ASHLEY JOHN RENHAM.

Application for Patent No. 940/Del/84 filed on 13th December, 1984.

Convention date 6th January, 1984/8400259/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

#### 8 Claims

An electric lamp as herein defined, a having a cap of a plastics material comprising at least one circumferential projection on the inside of the cap which engages a co-operating recess in the external surface of the envelope wall, thereby securing the cap to the envelope and at least one longitudinally extending ridge situated on the inside of the skirt of said cap, each of which fits into a co-operating groove formed in the lamp envelope thereby preventing relative rotation between the cap and the envelope.

Compl. Specn. 13 pages.

Drg. 4 sheets.

CLASS : 99H & 155D.

162574

Int. Cl. : B65d 31/00.

Title : LAMINATED SUBSTRATE SUITABLE FOR COLLAPSIBLE DISPENSING CONTAINER WALLS.

Applicant : COLGATE-PALMOLIVE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, UNITED STATES OF AMERICA.

Inventors : EDWARD ALBERT TAVSS & SAMUEL CANTOR TEMIN.

Application for Patent No. 943/Del/84 filed on 17th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 6 Claims

A laminated substrate suitable for collapsible dispensing container walls comprising a first layer of a sheet of impermeable polyester such as herein defined adhesively secured to a second layer of metal foil such as herein defined, said second layer of metal foil being adhesively secured to third layer of paper, said third layer of paper being also adhesively secured to a fourth layer of polyester such as herein defined.

Compl. Specn. 8 pages.

Drg 1 sheet.

CLASS : 32F<sub>9</sub>(a).

162575

Int. Class : C07C 87/52.

Title : A PROCESS FOR THE PREPARATION OF OXY-DIANILINE".

Applicant : CHIEF CONTROLLER, RESEARCH AND DEVELOPMENT, Ministry of Defence, Government of India New Delhi, India, an Indian national.

Inventors : BALASUBRAMANIAN VENKATA RAMANI ISHWAR DUTT GABA, CHANDRA DUTT PANDE, RANVIR SINGH KATIYAR & GOPI KRISHNA GUPTA. Application for Patent No. 31/Del/85 filed on 16th January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005

#### (Claims 4)

A process for the preparation of oxydianiline comprising the steps of condensing pnitrophenol/quinol/resolchloro bisphenol A with p-chloronitrobenzene in a polar solvent such as dimethylformamide/dimethylacetamide in the presence of anhydrous alkali metal salt, characterized in that the ratio of said phenol to p-chloronitrobenzene being varied between 0.5 : 1 and 1 : 1, the ratio of said phenol to said alkali

metal salt being varied between 1.0 to 1.5 mole, at a temperature of 130°C to 160°C for 4 to 6 hours, and reducing the dinitro compound formed, by pd/c in the same solvent at a temperature of 40°C to 80°C in the presence of hydrogen at a pressure of 30—100 psi, for 2 to 3 hours.

(Complete Specification 9 Pages Drawing sheet 1).

Class : 84D.

162576.

Int. Class : C 101 5/00.

Title : A PROCESS FOR THE PREPARATION OF FUEL  
Applicant : Chief Controller, Research & Development, Ministry of Defence, Government of India, New Delhi, India an Indian national

Inventors : PRAFULLA KUMAR MISHRA, BAPURAO VAMANRAO AVISKAR & JAYANT NARAYAN KULKARNI

Application for Patent No. 70/Del/85 filed on 30th January, 1985.

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch, New Delhi-110 005

### 1 Claim

A process for the preparation of a fuel which comprises dissolving 0.1 to 0.2 part of a known stabilizer such as Boric Acid, Alkyl Phosphines and Alkyl Phosphonates in 20 parts of methanol and adding thereto 1 to 4 parts of high viscosity nitrocellulose having a viscosity of at least 100 poises, under constant stirring and then shaking to obtain a mixture of uniform consistency and allowing the mixture to set.

(Complete Specification 5 Pages).

CLASS : 47 E & 85 F.

162577

Int. Cl. C 10b 25/06.

TITLE : COKE OVEN DOOR FOR A HORIZONTAL CHAMBER COKING OVEN.

Applicant : RUHRKOHLE AKTIENGESELLSCHAFT, of Rellinghauser Strasse 1, Postfach 10 32 62, 4300 Esen 1, West Germany, a German company.

Inventor : WOLFGANG BECKER.

Application for patent No. 123/Del/85 filed on date 14th Feb. 85.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1927) Patent Office Branch, New Delhi-110 005.

### 17 Claims

Coke oven door for horizontal chamber coking over with a one-piece or multi-piece protective shield which simultaneously serves as a heat protection, projecting into the oven chamber and is connected with the door body, by means of which the oven charge is kept at a certain distance from the door body, whereby the door body, during the coking process, is pushed against the door frame by means of a locking apparatus, characterised by at least one other shield between the one-piece or multi-piece shield and the door body and a gas duct is provided on the sides of the shields running between the protective shield and the other shield.

Compl. Specn. 20 pages.

Drg. 7 sheets.

CLASS : 9F.

162578

Int. Cl. C 22c 1/06.

Title : A PROCESS FOR THE SYNTHESIS OF A SUBSTANTIALLY AMORPHOUS METAL ALLOY.

Applicant : The STANDARD OIL COMPANY, an Ohio corporation, having a place of business at Midland Building, Cleveland, Ohio 44115, United States of America.

Inventors : MICHAEL ALAN TENHOVER, RICHARD SCOTT HENDERSON & JOSEPH ROBERT FOX.

Application for Patent No. 138 Del/85 filed on 16th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1927) Patent Office Branch, New Delhi-110 005.

### 9 Claims

A process for the synthesis of a substantially amorphous metal alloy comprising the step of :

- (a) dissolving first and second compounds such as herein described, each containing at least one metal such as herein described that is to be incorporated in the substantially amorphous metal alloy in first and second liquid solvents, respectively;
- (b) adding a chemical reducing agent such as herein described to each solution to form a particulate precipitate in each solution, each precipitate containing at least one of the metals in the substantially amorphous alloy;
- (c) intimately mixing together the precipitates from each of said solutions; and
- (d) heating said intimate mixture, to a temperature less than the crystallization temperature of the alloy to be formed.

Compl. Specn. 21 pages.

CLASS : 55 E<sub>4</sub>.

162579

Int. Cl. : A 61 k-21/00, 21/02.

Title : A PROCESS FOR THE PREPARATION OF EXTRACT OF THE STEM BARK OF PLANT STREBULUS AS PER.

Applicant & Inventor : RAVINDRA PRATAP SINGH, Herbal Drug House, Arya Nagar, G. T. Road, Alligarh-202 030 (Uttar Pradesh), An Indian National.

Application for Patent No. 286/Del/85 filed on 6th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1927) Patent Office Branch, New Delhi-110 005.

### 1 Claim

A process for the preparation of extract of the stem bark of the plant strebulus asper effective in the treatment of diseases like Filariasis including Microfilaria Carriers, Flavian Lymphemitis, Filarial lymphoedema, Elephantiasis comprising soaking 1 Kg of finely powdered dried stem bark in 5 litres of water and boiling the soaked powder in a total quantity of 10 litres of water; the boiling being continued till an extract of 2.5 litres is left; filtering the said aqueous extract and keeping it for approximately 8 to 10 hours to allow the suspended particles in the filtrate to settle; removing the said solid particles from the said filtrate by known methods such as decantation; heating the clear filtrate to concentrate the aqueous extract and drying the concentrated extract in a drying oven at temperature between 40° to 50°C for six hours; cooling the dried extract for one hour in a moisture free atmospheric condition, the dried and cooled extract thus obtained is finally powdered.

Compl. Specn. 9 pages.

CLASS : 133 A.

162580

Int. Class : H02p 3/00.

A SYSTEM FOR BRAKING ASYNCHRONOUS MOTORS.

Applicant : SULZER BROTHERS LIMITED, of CH-8401 Winterthur, Switzerland, a Swiss Company.

Inventors : ULRICH KAGI

Application for Patent No. 36/Del/85 filed on 21st January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005

(CLAIMS 8)

A system for braking an asynchronous motor (5) having a plurality of windings (21) connected to a three-phase network (R, S, T) having a network voltage, said system comprising: three motor feed lines (R', S', T') connecting said network (R, S, T) to said windings (21);

a motor actuator (3) including switching means (2) in said feed lines (R', S', T') between said network (R, S, T) and said windings (21) for selectively connecting and disconnecting said windings (21) from said network (R, S, T);

means (19) connected between at least two (S, T') of said feed lines (R', S', T') in parallel to at least one (21) of said windings (21) for producing a braking direct current voltage in response to disconnection of said windings (21) from said network (R, S, T) for injection to at least the one (21) of said windings (21); and

a trigger (14) with two inputs (14a, 14b), one (14a) of which being connected to said braking voltage producing means (19) and the other (14b) being connected to one (T') of said feed lines (R', S', T'), said trigger (14) being responsive to disconnection of said windings (21) from said network (R, S, T) to control the injection of the produced braking direct current voltage to said one winding (21);

said means (19) having:

a direct current supply means (19) for producing a braking d.c. voltage and connected to a first input (14a) of said trigger (14);

a first connecting line (18') between one (S') of said feed lines (R', S', T') to one of said windings (21) and said supply means (19);

a second connecting line (18, 18') between a second feed line (T') to said one winding (21) and said supply means (19) to receive a produced braking voltage from said supply means (19);

a switching element (16, 17) in said second connecting line (18', 18) for selectively opening and closing said second connecting line (18', 18);

a unidirectional path (20) in said second connecting line (18', 18) for conveying the braking voltage to said one winding (21);

a third connecting line (t') between at least one (T') of said feed lines (R', S', T') and a second input (14b) of said trigger (14) to convey a back voltage to said trigger (14) in response to disconnection of said windings (R', S', T') from said network (R, S, T); and

an AND-gate (12\$) having one input (12a) connected to an output (14c) of said trigger (14) to receive a control signal therefrom in response to at least nearly zero difference between the voltages at said inputs (14a, 14b) of said trigger (14), a second input (12b) connected to said motor actuator (3) to receive a second control signal therefrom in response to actuation of said actuator (3), and an output (12c) connected to said switching element (16, 17) in response to the presence of said control signals whereby the braking voltage from said supply means (19) flows through said second connecting line (18', 18) to said one winding (21), so that as a result therefrom the braking d.c. voltage is applied at least to said one winding (21) at a make time between a first reference time whereat the braking direct current voltage is closest to a back-voltage of said one motor winding (21) at said first reference time and a second reference time leading to a first peak in time of the back-voltage to occur after said first reference time by an amount equal to 5% of the full periodicity of the network voltage; and

wherein the braking direct current voltage at the make time has a polarity towards which the back-voltage tends at said first reference time.

Compl. Specn. 25 pages

Drgs. 5 sheets.

CLASS : 146-C

162581

Int. Cl. : G 01 I 9/08; G 01 n 29/02

PIEZOELECTRIC MOISTURE MEASURING DEVICE

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. JOHN HARRIS FLORA, 2. JAMES EVANS HENDERSON.

Application No. 1045/Cal/83 filed August 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A moisture-measuring device for measuring moisture of an ambient on one side of a solid wall member comprising:

a piezoelectric crystal sonically coupled to the wall member on a surface thereof facing the one side;

a capacitor having two plate members which are spaced apart, the space between the two plate members being exposed to the ambient; and

a network connected across said capacitor and crystal to provide a response indicative of the impedance of the capacitor upon excitation of the crystal at the resonant frequency of the network;

whereby exposure of the capacitor to a moisture variation results in a change in the response obtained upon excitation of the crystal from an opposite side of the wall.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 172-D<sub>4</sub>, 5

Int. Cl. : D 01 h 7/00

FALSE TWIST UNIT.

Applicant : MASCHINENFABRIK RIETER AG, OF WINTERTHUR, SWITZERLAND.

Inventors : 1. RICHARD HIERONYMI, 2. EMIL BRINER.

Application No. 1596/Cal/83 filed December 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

False twist unit (1), in particular for false twist spinning, with a suction portion (4) comprising a converging suction passage (7) and a throttle position (5) following thereon considered in the direction of thread movement (R) and twist imparting means (6) adioining the suction portion (4), characterized in that the suction portion (4) further comprises an expansion space (9) which is provided in communication with the suction passage (7) and before the throttle position (5) so that the suction passage (7) opens at its narrowest position (8) into the expansion space and so that the expansion space (9) is connected by means of an air exit (10) to a source (11) of underpressure.

Compl. Specn. 14 pages.

Drg. 4 sheets.

CLASS : 83-A1.

Int. Cl. : A 23 j 1/12.

METHOD OF RECOVERING USEFUL PRODUCTS SUCH AS FREE AMINO ACIDS FROM DE-OILED SOYMEAL.

Applicant : NOAVIS INTERCONTINENTAL, LTD., OF WEST HOUSE, PETER STREET, ST. HELIER, JERSEY, CHANNEL ISLANDS.

Inventor : L. GIORGIO COLMELET.

Application No. 503 Cal/84 filed July 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A method for recovering useful products such as free amino acids from de-oiled soymeal comprising the steps of:

(a) extracting said residue with aqueous liquid at a temperature in the range of 60-85°C;

(b) separating the liquid extract from step (a), from said residue;

(c) subjecting said residue from step (b) to aqueous acidic hydrolyzing conditions as described hereinbefore;

(d) separating the liquid phase from the mixture in step (c) from said residue, and optionally washing and drying said residue;

(e) contacting said liquid phase with a cationic sulfonated resin;

(f) eluting amino acids from said resin with aqueous base such as hereinbefore described;

(g) subjecting the eluate of step (f) to ultrafiltration;

(h) purifying the filtrate from step (g) on carbonaceous adsorbent;

(i) separating amino acid containing liquid from said carbonaceous adsorbent.

Compl. Specn. 20 pages.

Drgs. 2 sheets.

CLASS : 112-D

162584

Int. Cl. : F 16 m 11/00

## CURVED TROUGH SOLAR REFLECTOR.

Applicant & Inventor : ALLEN L. BRONSTEIN, 715 FIORALFS, PALO ALTO, CALIFORNIA 94306, U.S.A.

Application No. 471 Cal/84 filed August 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims

A solar reflector (12a, 12b), comprising :

a longitudinally extending frame structure (14) having first (20, 22) and second (24, 26) ends and a second (30) frame end closure (30);

a first form member (32a, 32b) attached generally across said first end (20, 22);

a second form member (34a, 34b) parallel to said first form member (32a, 32b) and in board of said second end closure (30), said first (32a, 32b) and second (34a, 34b) form members (32a, 32b, 34a, 34b) having peripheries (36a, 36b, 38a, 38b) having identical form surfaces (40a, 40b, 42a, 42b) along portions thereof;

3—107GI/88

162583

a support member (44a, 44b) attached to a respective one (30 or 34a, 34b) of said second end closure (30) and said second form member (34a, 34b) and extending toward a respective other (34a, 34b, or 20) thereof, said support member (44a, 44b) being adapted for transferring the weight of said second form member (34a, 34b) to said second end closure (30);

a flexible sheet (60a, 60b) of a material having a reflective in-facing surface (62) having opposite edges (64a, 64b, 66a, 66b) adapted for attachment to said identical form surfaces (40a, 40b, 42a, 42b) and having lateral edges (68a, 68b, 70a, 70b) generally perpendicular to said first and second form members (32a, 32b, 34a, 34b);

securing means (72a, 72b, 74a, 74b) for securing said opposite edges (64a, 64b, 66a, 66b) to said identical form surface (40a, 40b, 42a, 42b); and

stretching means (55) for stretching said flexible sheet (60a, 60b) between said first (32a, 32b) and second (34a, 34b) form members (32a, 32b, 34a, 34b).

Compl. Specn. 20 pages.

Drgs. 9 sheets.

162585

Int. Cl. : B 25 b 13/00.

## MANUAL RATCHET TORQUE WRENCH WITH AMPLIFIER.

Applicant & Inventor : JOHN KURT JUNKERS, OF 7 ARROWHEAD LANE, SADDLE RIVER, NEW JERSEY 07458, UNITED STATES OF AMERICA.

Application No. 734 Cal/84 filed October 19, 1984.

## 17 Claims

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A manual ratchet torque wrench with amplifier comprising housing means; ratchet means mounted in said housing means turnable about an axis means for engaging a polygonal member of a threaded connector for turning the member upon turning of said ratchet means in one direction; an elongated handle on said housing means for manually turning said housing means together with said ratchet means in said one direction about said axis so as to turn a polygonal member engaged by said means on said ratchet means with a given force; and manually operated amplifier means incorporated in said housing means for turning said ratchet means and said means thereon relative to said housing means in said one direction with a force greater than said given force.

Compl. Specn. 25 pages.

Drgs. 2 sheets.

162586.

Int. Cl. : A 61 k 25/00.

## PROCESS FOR PURIFYING PROCOAGULANT FACTOR VIII C.

Applicant : ARMOUR PHARMACEUTICAL COMPANY AT 303 SOUTH BROADWAY, TARRYTOWN, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. GODFREY W. AMPHILLTT, 2. MICHAEL EDWARD HRINDA.

Application No. 827 Cal/84 filed November 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

A process for purifying Factor VIII : C from source material containing Factor VIII : C and Factor VIII : R and optionally Fibronectin and/or Fibrionogen, comprising :

- providing an aqueous solution of said source material which has a pH above 5.5 up to 8.0, a conductivity of about 25 mS/cm to 35 mS/cm;
- adsorbing Factor VIII : C and Factor VIII : R from said solution onto aminohexyl agarose which has been equilibrated to the pH of said aqueous solution;
- eluting Factor VII : R from the aminohexyl agarose using a known eluant, and then
- eluting the Factor VIII : C from the aminohexyl agarose using a known eluant.

Compl. Specn. 17 pages.

Drg. Nil.

CLASS : 32-E + 15-E.

162587

Int. Cl. : C 10 m 145/22, 145/38.

**PROCESS FOR PREPARING A WATER-DISPERSIBLE REACTION PRODUCT FOR USE IN LUBRICANTS CUTTING MEDIA.**

Applicant : THE LUBRIZOL CORPORATION, 29400 LAKEI AND BLVD. WICKLIFFE, OHIO 44092, UNITED STATES OF AMERICA.

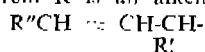
Inventor : 1. RICHARD WILLIAM JAHNKE.

Application No. 56/Cal/85 filed January 29, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 23 Claims

A process for preparing a water-dispersible reaction product for use in lubricants, cutting fluids which comprises reacting (A) at least one compound represented by the formula shown in Figs. 1 or 2 of the accompanying drawings wherein R is an alkenyl group represented by the formula



and R' and R'' are independently hydrogen or straight chain or substantially straight chain hydrocarbyl groups of at least one carbon atom, with the proviso that R has from 8 to 30 carbon atoms, with (B) at least water-soluble hydroxy terminated polyoxyalkylene such as herein described in a ratio of 0.5 : 1 to 8 : 1 at a temperature in the range of 60°C to 160°C under conventional ester-forming conditions.

Compl. Specn. 50 pages.

Drg. 1 sheet.

CLASS : 201-D

162588

Int. Cl. : B 01 j 1/00; C 02 c 1/00.

**A UNITARY PACKAGE WATER PURIFICATION AND TREATMENT DEVICE.**

Applicant & Inventor : MIGUEL FAVA BRIGANTE, OF ELECTRO-MAG (INDIA) PVT. LTD., 23/24, RADHA BAZAR STREET, CALCUTTA-700 001, INDIA.

Application No. 144 Cal/85 filed February 26, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

In a unitary package water purification and treatment device adapted to be attached to a water appliance such as home water heater, boiler comprising :

a 24 volt DC power supply;

an electromagnetic coil within a housing energized by D.C. which completely encircles and extends along substantially the entire length of a centrally supported conduit pipe section;

said electromagnetic coil being fed by 24 volts D.C. to thereby induce a C.C. magnetic field within the interior of said conduit pipe section through which water flows;

an elongated shaft extending through said pipe section and having a solid helical impeller of ferro-magnetic material with six to eight flights, longitudinally traversing the entire length of said electro-magnetic coil;

end portions of said impeller shaft arranged centrally of said pipe section for central support on bearing bushings at opposing ends of the pipe section;

each of said bearing bushings respectively secured to externally threaded male plugs;

each of said male plugs provided with a means (central projection) for threaded installation and removal of said plugs into opposing ends of internally threaded T-shaped fittings, said T-shaped fitting secured at opposite ends of said central pipe conduit and communicating therewith to define a flow path with the helical impeller;

each of said T-shaped fittings includes internally threaded port means for entrance of feed water and delivery of purified water, such that the flow path is free and unobstructed from the bearings; and

each of said T-shaped fittings provided with means for a maximum flow of water through said central pipe section and free of deposits and corrosive effects.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 119-A, B & D.

162589

Int. Cl. : D 03 d 37/00.

**IMPROVEMENTS IN OR RELATING TO A CIRCULAR LOOM.**

Applicant & Inventor : FRANZ XAVER HUFNER, OF SONNENUHRGASSE 4, 1060 VIENNA, AUSTRIA.

Application No. 430/Cal/85 filed June 7, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A circular loom comprising :

a main drive shaft;

an electric motor operatively connected to said main drive shaft for rotating same;

means connected to said main drive shaft for establishing a circularly travelling shed;

a circular reed co-operating with said shed to generate a tubular fabric;

a circulating shuttles operatively connected to said main drive shaft for depositing weft thread in said shed in the generation of said fabric;

weft thread supervising means monitoring said weft thread and upon the development of a fault therein generating a stop impulse for deenergizing said motor;

a fabric drawing-off mechanism receiving the generated fabric and collecting same in a flattened form; and

a transmission operatively connecting said fabric drawing-off mechanism with said motor, having the improvement which comprises the combination therewith of:

an electromagnetic coupling between said transmission and said motor connected with said weft thread supervising means for synchronously with the generation of said stop impulse mechanically deenergizing said transmission from said motor; and

an electromagnetic brake operatively connected to said transmission and actuated by an impulse synchronous with said stop impulse for immediately upon the generation thereof bringing said fabric drawing-off mechanism to standstill while, with said motor deenergized, said travelling shed continues to form and said shuttles to circulate under inertial of said shaft and parts connected therewith.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 69-P

162590

Int. Cl. : H 02 b 1/00.

#### A DRAWOUT SWITCHGEAR.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA

Inventor : 1. FRED BOULD.

Application No. 811/Cal/85 filed November 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972 Patent Office, Calcutta).

#### 13 Claims

Drawout switchgear for distributing electric power from a power supply to power-consuming devices, comprising a cell having a front opening, a circuit interrupting unit movable into and out of the cell, stationary terminal means supported within the cell, movable terminal means mounted on the unit and movable with the cell between connected and disconnected positions of the stationary terminal means, guide means for supporting movement of the unit and including spaced tracks within the cell, and a track extension for each track movably mounted adjacent thereto and being movable with the unit into and out of the cell so as to support the unit as it moves through the front opening.

Compl. specn. 11 pages.

Drg. 8 sheets

#### OPPOSITION PROCEEDINGS

##### (1)

An opposition entered by the Gillette Company to the grant of a Patent application No. 154842 made by Harbans Lall Malhotra & Sons Ltd. as notified in the Gazette of India, Part III, Section 2 on 6th July, 1985 ordered that the Patent application has been refused.

##### (2)

An opposition entered by Orissa Cement Limited to the grant of a Patent on application No 157516 made by Kumardhubi Fire Clay Silica Works as notified in the Gazette of India, Part III, Section 2 dated the 25th October, 1986 has been refused the grant of Patent application.

##### (3)

An opposition entered by M/s. Nat Steel Equipment Private Limited, Bombay to the grant of a patent on application No. 159777 made by Nalkur Sripad Rao as notified in the Gazette of India, Part-III, Section 2 on 16th January, 1988 hereby ordered that the patent application has been treated as abandoned.

##### (4)

An opposition has been entered by Council of Scientific & Industrial Research to the grant of a Patent on application No. 161394 filed on 27th December, 1983 made by Institut Francais Du Petrole.

#### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy:—

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#### AMENDMENT PROCEEDING UNDER SECTION 57

The amendments proposed by chemie Linz AG in respect of Patent application No. 146533 as advertised in Part III, section 2 of the Gazette of India, dated 6-9-80 have been allowed.

#### RENEWAL FEES PAID

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## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 155221 dated the 16th November, 1981 made by Vellore Duraiswamy Venugopal on the 19th June, 1987 and notified in the Gazette of India, Part III, Section 2 dated the 31st October, 1987 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 154260 dated the 17th October, 1981 made by Craelius AB on the 23rd June, 1987 and notified in the Gazette of India, Part III, Section 2 dated the 31st October, 1987 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 158897. Kores (India) Limited, a Company incorporated under the Companies Act, having its registered office at Plot No. 10, Off Dr. E. Moses Road, Worli, Bombay-400 018, Maharashtra, within the Union of India. "Clips". 7th October, 1987.

Class 1. No. 158899. Suresh Todi, an Indian National trading as Todi Metal Industries, having its registered office at Todi Udyog Kendra, 35, Saki Vihar Road, Bombay-400 072, Maharashtra, India. "Knife". 7th October, 1987.

Class 1. No. 158900. Suresh Todi, an Indian National, trading as Todi Metal Industries, having its registered office at Todi Udyog Kendra, 35, Saki Vihar Road, Bombay-400 072, Maharashtra, India. "Spoon". 7th October, 1987.

Class 5. No. 158796. Sangeeta Tea Suppliers (a registered Partnership firm) at 3/12/59 Raja Bajar, Aurangabad-431 001, State of Maharashtra, India. "Packet". 11th September, 1987.

Class 10. Nos 159121, 159123, 159126, 159128. Bata India Limited, 30, Shakespeare Sarani, Calcutta-700 017, West Bengal, India. "a footwear". 2nd December, 1987.

Class 10. No. 159152 Industrial & Commercial Traders having its registered office at Swastik Industries Compound, Chincholi Bunder Road, off, S. V. Road, Malad, Bombay-400 064, State of Maharashtra, India. a registered Partnership firm. "Footwear". 11th December, 1987.

*Extn. of Copyright for the Second period of five years.*

Nos. 157291, 151344, 152977, 152864, 157290, 152676	Class-1.
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Das, H. K. Dr.—150751.	Eastern Carbons.—150295, 150303, 150489.
Das, N. K. (Dr.).—149999.	Echlin Manufacturing Company, The.—150051.
Dasgupta, A. R.—149600.	Edenvale Engineering Works (Proprietary) Ltd.—14978.
Dasgupta, B.—149682, 149705.	Eirion, W.—150499.
Dasgupta, D. K.—150369.	Eisenbau Wyhlon Aktiengesellschaft.—150302.
David Brown Gear Industries Ltd.—150379.	Eisenwerk-Gesellschaft Maximilianshutte MBH.—149859, 150145.
	Electric Furnace Co., The—150772.
	Electro-Biology.—150313.
	Electronics Corporation of India Limited.—150065.
	Eli Lilly and Company.—149651, 149777, 149912.

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Elkem-Spigerverket A/S.—149712, 150223, 150800.  
 Elsbett, G.—150508.  
 Elsbett, L.—150508.  
 Engelhard Corporation.—150187.  
 English Card Clothing Co., Ltd., The.—149936.  
 Environmental Elements Corp.—150294.  
 Erani, H. K.—149770.  
 Escher Wyss Ltd.—150317.  
 Esmil, B. V.—150745.  
 Ethicon, Inc.—149754, 149848, 149914.  
 Eischeid India Pvt. Ltd.—150239.  
 Europaische Atomgemeinschaft (Euratom).—149878.  
 Evkin, J. F.—149891.  
 Executive Director, Fertilizer (Planning & Development) India Ltd.—149587.  
 Explosafe S. A.—149677, 150332.

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F. Hoffmann-La Roche & Co. Aktiengesellschaft.—150106, 150740.  
 FMO Corporation.—150280, 150399.  
 Fairfield Engineering Co., The.—149742.  
 Federal-Mogul Corporation.—150532.  
 Ferro Corp.—150720.  
 Fertilizer (Planning & Development) India Limited, The.—150071, 150813.  
 Festo-Maschinenfabrik Gottlieb Stoll.—149926.  
 Fields, G. C.—150500.  
 Firich, G.—150499.  
 Fives-Call Babock.—149813, 150630, 150633.  
 Fleetgaurd, Inc.—150445.  
 Fletcher, J.—150276.  
 Flugates Ltd.—150675.  
 Forest Products Utilization Laboratory.—150491.  
 Foster Wheeler Ltd.—149946.  
 Fried, Krupp Gesellschaft Mit Beschränkter Haftung.—149635, 149805.  
 Fritz Buscher Ag. Maschinenfabrik.—150659.

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G. D. Societa Per Asioni.—150829.  
 Gadgets India.—150247.  
 Gaf Corporation.—149951, 149593.  
 Gangal, A. B.—150456.  
 Garware Wall Ropes Ltd.—149691.  
 Gasirock, E. A.—149806.  
 Gavia A. G.—149531.  
 Gorlin, V. P.—149891.  
 Gayen, S. K.—150814.  
 Gharda Chemicals Pvt. Ltd.—149631, 150060.  
 Gelenkwellenbau GmbH.—149653.

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 General Electric Co., Ltd., The.—150222, 150248.  
 Georg Eischer Aktiengesellschaft.—149548, 149667, 149706, 149930.  
 Gestetner Limited.—149977.  
 Ghose, S. S.—149652, 149661.  
 Ghosh, S. (Dr.).—150340.  
 Gildemaister-Devlieg System-Werkzeuge GmbH.—150706.  
 Girard-Perregaux S. A.—149640.  
 Girling Ltd.—150265, 150345, 150531, 150822.  
 Giza S. p. A.—150599.  
 Gnilitsky, B. S.—150787.  
 Godbole, N. M.—150262.  
 Gopalakrishnan, S. I.—150359.  
 Gosudarstwenny I Nauchno-Issledovateleskij I Projektny Institute Asotnaj Promyschlennosti I Produktow Organit-scheskogo Sintesa.—150597.  
 Gratzmiller, J. L.—150588.  
 Gresoren S. A.—150738.  
 Gromoglasova, V. N.—149891.  
 Gulf Oil Corporation.—150812.  
 Gurkov, B. A.—149891.  
 Gurudutt, M.—150008.  
 Guitehoffnungshutte Sterkade Aktiengesellschaft.—150798, 150809.

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Halcon Research and Development Corporation.—150333, 150380.  
 Hall, G. L.—150469.  
 Hans Ulrich Klingenberg.—150083.  
 Harish Textile Engineers Pvt. Ltd.—149767.  
 Herlalka, A. R.—150259.  
 Hardigg Industries Inc.—150412.  
 Hartmann & Braum Aktiengesellschaft.—150197.  
 Hasler Ag.—149597.  
 Hawker Siddeley Aviation Limited.—149606.  
 Hayashibara, K.—149916.  
 Hazemeyer B. V.—150739.  
 Hegde and Golev Ltd.—149796, 149869, 149870, 149871, 149872, 149873, 149893, 150068.  
 Hegler, W.—150236.  
 Hein, Lahmsana, Aktiengesellschaft.—150129.  
 Helms, W. R.—149552.  
 Hilda Bolli.—149952.  
 Ille Engineering Co.—150758.  
 Hindustan Lever Limited.—149583, 149734, 149765, 149789, 149795, 150018, 150029, 150203, 150204, 150249, 150729.  
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 Hitachi Ltd.—149986, 150299.  
 Hoechst Aktiengesellschaft.—149546, 149547, 149555, 49614, 149633, 149643, 149949, 14992, 150012, 150014, 150061, 150092, 150105, 150108, 150125, 150149, 150152, 150238, 150312, 150365, 150366, 150367, 150368, 150515, 150542, 150557, 150592, 150629, 150714.

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 Huns Packaging Pvt. Ltd.—150189, 150190.  
 Huttenes-Aubertus, Chemische Werke GmbH.—149991, 150101.  
 Hydra-Tight Ltd.—150679.  
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 IGP Engineers Pvt. Ltd.—149695.  
 Ing. F. Selmer A/S.—150477.  
 Ing. T. K. Furubolmen A/S.—150477.  
 I. S. C. Smelting Ltd.—150339.  
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 Ichara Chemical Industry Co. Ltd.—150669.  
 Imi Marston Limited.—150148.  
 Imperial Chemical Industries Ltd.—149863, 150196, 150411, 150570.  
 Indian Bureau of Mines.—150066.  
 Indian Cable Co., Ltd., The.—149948, 150059, 150127.  
 Indian Explosives Ltd.—149688, 149689, 149764, 149831, 150033, 150034, 150035, 150053, 150251, 150613.  
 Indian Farmers Fertilizer Cooperative Ltd.—150360.  
 Indian Institute of Technology, Madras.—149896, 150050, 150835.  
 Indian Jute Industries' Research Association.—149846, 149865, 149866, 150620.  
 Indian Space Research Organisation.—149900.  
 Indicarb Limited.—150421.  
 Indo-Japanese Industrial Enterprises (Pvt.) Ltd.—150361.  
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 Iheed PTY, Ltd.—150320.  
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 Inoué-Japax Research Incorporated.—150147, 150310.  
 Institut Chernoi Metallurgii.—149672.  
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 Institut Phizmii Bashkirskogo Filiala Akademii Nauk SSR.—149746.  
 Institut Metallurgii Imeni.—150016.  
 Institut Neftekhimicheskikh protsessov Imeni Akademika JU. G Mamedalieva Akademii Nauk Azerbaidzhanskoi SSR.—150041.  
 Instituto De Angeli S. p. a.—150827.  
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 Insulock Corporation.—149804.  
 Interlight.—150392.  
 International Business Machines Corporation.—149637, 150284.  
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 Interparte Aktiengesellschaft.—150683.

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Ion Exchange (India) Ltd.—149536.  
 Ireco Chemicals.—149882.  
 Ishihara Sangyo Kaisha Ltd.—149839, 149945.  
 Ishikawajima Harima Jukogyo Kabushiki Kaisha.—150282.  
 Isola Soc. Per. As Per La Fabb.azione Di Isotanti Elettrici.—150126.  
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 Jacob Manufacturing Co., The.—15075..  
 James W. Gardner Enterprises Inc.—149663.  
 Japan Styrene Paper Corporation, Ltd.—150551.  
 Japax Incorporated.—150310.  
 Jason La-z-boy Chair Co., PTY.—149961.  
 Jerajani, A. J.—149567.  
 Jhaveri, D. K.—149572.  
 Jhaveri, R. K.—149572.  
 Jhaveri, S. K.—149572.  
 Johns-Manville Corporation.—149507.  
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Kabel-Und Metallwerke Gutehoffnungshutte Aktiengesellschaft.—149838, 150085, 150642.  
 Kadiogly, I. A.—150649.  
 Kaken Chemical Co., Ltd.—150559.  
 Kamshitsky, P. V.—150747, 150787.  
 Kanescho Company Ltd.—150774.  
 Kant, C. P.—149621.  
 Kardile, J. N.—150448.  
 Kentney, T. J.—149962.  
 Kelker, H. G.—149566.  
 Kemco Chemicals.—150594.  
 Kennecott Corporation.—149678, 150155, 150803.  
 Khandekar, S. K.—150494, 150554, 150624.  
 Khanderia, A. V.—149521, 150135.  
 Kiroloskar brothers limited.—150072.  
 Kiroloskar Oil Engines Ltd.—150454.  
 Kisas Equipment Pvt. Ltd.—150449.  
 Klein, Schamlin & Becker A. G.—150117.  
 Kliment'ko, T. M.—150543.  
 Koloninov, N. V.—149807.  
 Kolesov, I. A.—150595.  
 Kontiki Chemicals & Pharmaceuticals (P) Ltd.—105134.  
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Koshman, V. I.—150747, 150787, 150802.	Marathon Oil Co.—150344.
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Krigs, J.—150520, 150791.	Markelov, V. A. —150655.
Kulchnikov, V. I.—149807.	Martin Engineering Co.—149740.
Kulkarni, P. K.—150007, 150009.	Maschinenfabrik Augsburg Nurnberg Aktiengesellschaft.—149890, 149903, 150220, 150427, 150516 150625, 150782, 150799, 150831, 150832.
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Kumar, R. D.—150158.	Maschinenfabrik Rieter-A.G.—149913.
Kupka, D.—150637.	Maslyansky, G. N.—150543.
Kureha Kagaku Kogyo Kabushiki Kaisha.—149861, 150501.	Mathur, S. S.—150564, 150577, 150578.
Kurkovskaya, V. V.—149891.	Mcmaster, H.A.—150716.
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Kusters, E.—150297.	Mehrotra, P. K.—150677.
L	Mehtha, G. R.—150564, 150577, 150578.
Labo-Fine S. A.—150214.	Mehtha, P. C.—150560.
Lakhanpal National Ltd.—149733, 149790.	Monk Apparatebau GmbH.—149562.
Larsen, O. F.—150643.	Mercier, J. H.—150765.
Larson & Toubro Ltd.—149736, 150607, 150608.	Messer Griesheim GmbH.—149679, 149702, 150017.
Lassota, M. J.—150521.	Messwandler-Bau GmbH.—150502.
Lauenburg, R. A.—150698.	Metal Box Co. of India Ltd., The.—149824.
Le Commissariat A' Energie Atomique.—150393.	Metal Box Ltd.—149744, 150590, 150743.
Leningradsky Politekhnichesky Institut.—149761.	Metallgesellschaft A. G.—149817, 149966, 149993, 150387, 150713.
Leningradsky Zavod Sloistykh Plastikov.—150789.	Metallurgical & Engineering Consultants (India) Ltd.—150136, 150137, 150138, 150139, 150140, 150141, 150142.
Lettera Arabica S. a. r. I.—150815.	Mez Mohelnice, Narodni Podnik.—150052.
Lavoni, C. F.—149974.	Michelin & Cie (Compagnie Generale Des Etablissements Michelin).—149809, 149811.
Levoni, G.P.—149974.	Minnesota Mining and Manufacturing Co.—149741, 150080, 150663.
Leybold-Heraeus GmbH.—150795.	Mironenko, V. G.—150787.
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Lilly Industries Ltd.—149680, 149760, 150754, 150755, 156756.	Mitsui Toatsu Chemicals, Inc.—149929, 149965, 150770.
Linde Aktiengesellschaft.—149576, 149984, 150634.	Mittu, N.—149969.
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Lodge-Cottrell Ltd.—150192.	Mobil Tyco Solar Energy Corporation.—150245.
Loganathan, G.—150268.	Mono Pumps Ltd.—150721, 150823, 150826.
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Lubrizol Corporation, The.—149553, 149615, 150090.	Montedison S.p.A.—149776, 149940, 149995, 150228, 150518, 150539.
Lucas Electrical Co., Limited, The.—149708.	Morrison Machine Co.—149709.
Lucas Industries Ltd.—149638, 149717, 149798, 149834, 149835, 149886, 149887, 149897, 149898, 149967, 149968, 150046, 150070, 150075, 150178, 150181, 150215, 150218, 150266, 150267, 150269, 150356, 150357, 150358, 150377, 150461, 150511, 150530, 150635, 150636, 150638, 150673, 150715, 150768, 150779.	Motors Leroy-Somer.—150376.
M	Motion Control Corpns.—150838.
Macgregor International S. A.—149512, 150553.	Meviliar Systems S. A.—150841.
Mable GmbH.—149513.	Mukherjee, S.—149623.
Mail Order Sales Pvt. Ltd.—150304.	Mura, A.—150432.
Majumdar, B.—150504.	
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N. V. Philips' Gloe-lampen-fabrieken.—149937, 150128, 150540.	Personal Products Co.—149816.
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Nair, K. M. R. K.—150807.	Petroleo Brasileiro S. A.—150493, 150790.
Nair, K. V. (Dr.)—150360.	Petrov, G. V.—149807.
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Nauchno-Issledovatelsky Konstruktorsko-Tekhnologichesky Institut Shinnoi Promyshlennosti.—150717.	Pfizer Inc.—149519, 149520, 149747, 150279, 150334, 150353, 150354, 150355, 150395, 150407, 150507, 150574.
Nazir, C. P.—150023.	Phatak, D. R.—149609.
Nedschroef Octrooi Maatschappij N. V.—149958, 149959.	Phatak, R. D.—149609.
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Nicholas Proprietary Ltd.—150300.	Philagro.—150286.
Nippon Light Metal Company Limited.—149523, 149524.	Philip Morris Incorporated.—149785.
Nippon Steel Corporation.—149905, 149954, 150308.	Phillips Petroleum Company.—149530, 149649, 149751, 149996, 150159, 150665, 150700.
Nitchke, J. S.—150716.	Pillai, D. S.—149542.
Nitrokemia Jpartelepek.—149779.	Pillai, P. K.—150582.
Nitro Nobel AB.—150343.	Pilkington Brothers Ltd.—150621.
Nitschke, N.C.—150716.	Platt Saco Lowell Ltd.—150622, 150623.
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Norton Company.—150224.	Polysar Ltd.—150328.
O	Polystet Corporation.—149833.
O & K Orenstein.—150240.	Polyaius Ag.—150692.
Oblezova, B. V.—149807.	Polytype A. G.—149690.
Okuli OY.—149743.	Pornkshe, G. R. (Dr.)—15025.
Olevsky, V. M.—149891.	Pont-A-Mouson S.a.—149975, 150170, 150681.
Onoda Cement Co. Ltd.—150732.	Poon, C. C.—150733.
Orissa Cement Ltd.—150390.	Pophale, S. R.—149769.
Osakeytio, A. A.—150144.	Population Research Inc.—150627.
Ostaberg, B. N.—149877.	Preformed Line Products Co.—149941, 150492.
Outokumpun Oy.—150544, 150599	Prerovske Strojirny, Narodni Podnik.—149591, 149918.
Owens-Corning Fiberglas Corpn.—150794.	President of Tohoku University.—150307.
Ozyagcilar, M. N.—149658.	Pressure Cookers & Appliances Ltd.—149539, 149771.
P	Proizvodstvennoe Obiedinenie "Leningradsky Metallicheskyy Zavod".—149738, 149983, 150094, 150735.
PPG Industries, Inc.—150278.	Proizvodstvennoe Obiedinenie "Uralelektrotyazhmarsh".—150735.
P. W. T. Plastic World Technology Ltd.—150619.	Projektierung Chemische Verfahrenstechnik Gesellschaft Mit Beschränkter Haftung.—149855.
Paderwerk Gebr. Benteler.—149556.	Pun, C. W.—150733.
Padmanabhan, C. I.—150177.	R
Palnitker, G. P. R. (Dr.)—149899, 150535,	Rca Corporation.—149514, 150097, 150616.
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Paramasivam, S.—150180.	Rajendran, A. (Mrs.)—150069.
Paszner, L.—150626.	Ramaiah, N. A. (Dr.)—149819, 149820.
Patel, H. A.—150452.	Ramaswamy, S.—149620.
Patwardhan, S. V. (Dr.)—149568.	Ransome Hoffmann Pollard Ltd.—149928.
Paul, T. M. Dr.—150534.	Rao, D. S. P.—150406.
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Rashinkar, K. N. (Mrs.).—149538.	Sanborn E. B.—150325.
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Ratnaparkhi, P. K.—149769.	Sandvik Aktienbolag.—149752, 149904.
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Ray, S. (Dr.).—149644.	Sanritsu Denki Kabushikikaisha.—150699.
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Registrar, Indian Institute of Science, (Bangalore) The.—150422.	Sarabhai Research Centre.—150002.
Registrar, Indian Institute of Technology, (Kharagpur) The.—149559.	Saraogi, M. C.—150113.
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Research Designs & Standards Organisation.—150674, 150687.	Satake Engineering Co., Ltd.—150662.
Resor India Limited.—150439.	Sathe Biscuit and Chocolat Co., Ltd., The.—150306.
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Robert Bosch GmbH.—150764.	Schweissindustrie Oerlikon Buhle Ag.—149586, 149947.
Rohm And Haas Company.—150277.	Schweizerische Isola-Warke.—150383.
Royal Tool Co., Inc.—150011, 150430.	Season Control.—150043.
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Ruchinsky, V. R.—149891.	Sen, S. K.—150321, 150331.
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S	Shafranovsky, A. V.—149891.
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S. S. Industries.—150522.	Sharma, M. K. S.—149696.
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Saft-Societe Des Accumulateurs Fixes Et De Traction.—150037, 150725.	Shell Internationale Research Maatschappij B.V.—150146 150526, 150825.
Saha, H.—149942.	Shell Oil South Africa (Proprietary) Limited.—149508-149525.
Saint-Gobain Industries.—149749, 149989, 150032, 150658, 150711, 150734, 150759, 150783.	Sherritt Gordon Mines Ltd.—149646.
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Samuel, J. (Dr.).—150423	Shreeshya Electronics Pvt. Ltd.—150463.
Sanac Societa Per Azioni Refrattari Argille E Caolini.—149584.	Sibal, B.K.—149768.
	Siemens Aktiengesellschaft.—149558, 149581, 149605, 149624, 119656, 149660, 149671, 149814, 149879, 149955, 149980, 150000, 150057, 150107, 150130, 150131, 150132, 150227, 150375, 150378, 150381, 150549, 150615, 150641, 150762.

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Siemens-Albis Aktiengesellschaft.—150351.	Sri Aurobindo Society.—150462.
Sigma-Tau Industrie Farmaceutiche Riunite S.P.A.—149611.	Sridhar, P. (Mrs.).—149634.
Sikka, O.P.—150259.	Sridhara, B. N.—150836.
Silver Seiko Ltd.—150109.	Srinivas, S.—150184.
Singh, D.—150564, 150577, 150578.	Srinivasan, N. A.—150606.
Singh, S. (Swaran).—150410.	Srinivasan, S. T.—149618.
Singh, S. (Satnam).—150410.	Srivastava, S. C.—150160.
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Sio-Societa Per L'Industria Dellossigeno E Di Altri Gas S.p.a.—150350.	Stahler, T.—150796.
Sir Padampat Research Centre.—150064, 150413, 150478.	Stamicarbon B. V.—150338, 150389, 150465, 150473, 150575, 150726.
Sirpur Paper Mills Ltd., The.—149970.	Stanadyne, Inc.—149549, 150541.
Sigmeo N.V.—150691.	Standard Car Truck Company.—149573.
Skoda, Oborovy Podnik.—149867, 150434.	Standard Oil Co.—150336.
Smithkline Corporation.—150172, 150272.	Star Industrial & Textile Enterprises Ltd.—150583.
Snamprogetti S.p.a.—149773, 150209, 150631, 150640.	Stauffer Chemical Company.—149703, 150022, 150200.
Spia Viscosa Societa Nazionale Industria Applicationi Viscosa S.p.a.—149666.	Steel Authority of India Ltd.—150611.
Soceta Italiapa Telecommunicationi Siemens S. P. A.—149543, 150704.	Sterlitamaxky Imeni 50 Letia Bashkirskoi Assr zavod Sinteticheskogo Kauchuka.—149746.
Societe Anonyme Secmafer.—150143.	Stopinc Aktiengesellschaft.—149755.
Societe Civile D'Etudes Et De recherches Des Transmissions Specials.—150701.	Stork Brabant B. V.—149670, 150098.
Societe De Conseils De Recherches Et D'applications Scientifiques (S.C.R.A.S.).—150337.	Subramanyam, S.—149885, 150044.
Societe De Peris Et Du Rhone.—149599, 149775, 149908, 150030, 150118, 150119, 150217, 150645.	Sudershan Chemical Industries Ltd.—150254.
Societe De Prayon.—149585.	Sumitomo Chemical Company Ltd.—150384, 150554, 150654, 150696, 150793.
Societe Des Aciars Fins De L'est.—149561.	Sundaram Clayton Ltd.—150834.
Societe Des Produits Nestle S. A.—140723, 249803, 150435, 150440.	Sundariva, B. N.—149901.
Societe D' Etudes Scientifiques Et Industrielles De L'ile De France.—150226, 150618.	Suomen Laaketehdas Oy Salco.—149964..
Societe Dite, A. O.M.A.T. Ateliers De constructions Mecaniques De L'atlantique.—150709.	Svensk Teleindustry Holding AB.—150198.
Societe Nationale Des Poudres Et Explosives.—150402.	Sylvia Goetz.—149641.
Societe Nationale Elf Aquitains (Production).—149608, 149687.	T
Societa Nazionale Industria Aplicazioni Viscosa S.p.a.—149880.	T .T. (Private) Limited.—149522.
Solent & Pratt (Engineering) Ltd.—150833.	T. Sendzimir incorporated.—150100, 150120, 150121, 150122.
Southern Roadways Ltd.—150460.	Takasago Thermal Engineering Co., Ltd.—149905.
South India Textile Research Association, The.—149894.	Tashkentsky Institut Textilnoi I Legkoi Promystlennosti.—150667.
Southwire Company.—149957, 150414, 150537.	Tata Engineering & Locomotive Company Limited.—149632, 149981, 149832, 150731.
Spanel, A. N.—149985.	Tata Hydro-electric Power Supply Co., Ltd., The.—150446.
Sphere Investments Ltd.—149713.	Tata Iron And Steel Company Limited, The.—149601, 149673.
Spirax Sango Ltd.—150843.	Tata Pipe Lining Processes Ltd.—150062.
	Tata Power Co., Ltd., The.—150446.
	Tathe, B. G.—149570.
	Teldix G. m. b. h.—150550.
	Teledyne Industries, Inc.—150567.

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Territorialnoe Geologicheskoe Upravlenie Tsentralnykh Rainov.—149909.	Ultrafin S.A.—150778.
Tesa S.A.—150169.	Umeda Electronics Enterprises Laboratory Inc.—149753.
Tetra Pak Development SA.—150436.	Unic Van Kunststofffabrieken B.V.—150195.
Texaco Development Corporation.—149626, 149686, 149727, 149840, 150327, 150757.	Unilever Ltd.—149557.
Tex Innovation AB.—150185.	Union Carbide Corporation.—149920, 150103, 150370, 150476, 150485, 150614, 150684, 150688, 150766.
Thajudeen, C.S.—150362.	Union Carbide India Ltd.—149707, 150443, 150505, 150555, 150556.
Thermax (India) Pvt. Ltd.—149569.	Uniroyal Inc.—150285, 150347.
Thomson CSF.—150415.	United Catalysts Inc.—150408.
Thompson, H.—150805.	United Technologies Corp.—149724.
Tideland Signal Corp.—149719.	Universite de Dakar.—150441.
Tioxide Group Ltd.—150676.	Upjohn Company, The.—149842.
Tomita, S.—149725, 150771.	Usha Automobile & Engineering Ltd.—150027.
Toraskar, N. H.—150255.	—V—
Toray Silicone Co., Ltd.—150156.	Vaometal Gesellschaft Fur Kunum Metallurgie MBH Heiliger Weg.—149982.
Toshin Kogyo Co., Ltd.—150319.	Vaidya, A.S.—150253..
Toth Aluminium Corp.—149837, 150671.	Vaithilingam, G.—150005.
Toyama Chemical Co., Ltd.—149604.	Vakuum Vulk Holdings Ltd.—150424.
Toyo Engineering Corporation.—149965, 150569, 150723.	Valmet oy.—149700.
Toyo Ink Manufacturing Co., Ltd.—150810.	Values PTY., Ltd.—149988.
Tractel S.A.—150572.	Vandervell Products Ltd.—149748.
Triton Fertilizer (Proprietary) Ltd.—150188.	Varughese, J.—150260.
Trutzschler GmbH & Co. KG.—149844, 149933.	Vaswani, J.—150573.
Trw Inc.—149953.	Veb Filmfabrik Wolfen.—150210, 150651.
Tsai, K.L.—150652.	Veb Geskombinal Schwarze Pumpe.—149825.
Tsentralnaya Experimentalnoe Issledovatel'skaya Konstruktorsko-Tekhnologicheskaya Laboratoria Khimisataii Selskogo Khozyaistva.—150174.	Veb Kombinet Medizin-Und Labortechnik Leipzig.—149662, 150154, 150186.
Tsentralny Nauchno-issledovatelsky Institute Chernoi Metalurgii Imeni I.P. Bardina.—150026.	Veb Polygraph Leipzig Kombinat fur Polygraphische Maschinen Und Ausrustungen.—150664.
Tube Investments of India Limited.—149616.	Vickers Limited.—149821.
Tulsi Oil Manufacturing Co.—149735.	Vidal, H.C.—150425.
Tulsky Prosktno-Konstruktorskyy Tekhnologicheskyy Institut Mashinostroenia.—149648, 150078.	Viljanmaa, A.K.—150644.
Tungabhadra Steel Products Ltd.—150404.	Vladimirova, L.K.—150698.
Tyagi, R.C.—150564, 150577, 150578.	Voest-Alpine Aktiengesellschaft.—149510, 149722, 150324, 150785.
— U —	Volta's Limited.—150045.
Ube Industries Ltd.—149972.	Vorhauer Laboratories, Inc.—150587.
UOP Inc.—150281.	Vsesojuzny Gosudarstvenny Institut Nauchno-Issledovatelskikh I Proektnykh Rabot Ogneupornoi Promyshlennosti.—149563.
USM Corporation.—150686.	Vsesojuzny Nauchno-Issledovatelsky Gorno-Metallurgichesky Institut Tsvetnykh Metallov.—149756.
USS Engineer & Consultants, Inc.—149715.	Vsesojuzny Nauchno-Issledovatesky Institut Produktov Brozhenia.—149532.
Ut-Es Vasutervezo Vallalat.—149823.	Vsesojuzny Nauchno-Issledovatelsky Institut Tekhnicheskogo Ugleroda.—150208.
Uhde-GmbH.—150096.	Vsesojuznoe Nauchno-Proiz-Vodstvennoe Obiedinins Tsell-julozno-Bumazhnoi Promyschennosti.—150789.
Ukrainsky Nauchni-Issledovatelsky Institut Nekhanizatsii I Elektrifikaish Selskogo Khozyaistva.—150386.	Vulcan Australia Ltd.—150712.
Ultradynamics Corp.—150746.	

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Waagner-Biro Aktiengesellschaft.—150750.	Whiteley, D.—150276.
Wacker-Chemie GmbH.—150703.	Widmer & Ernst AG.—149625.
Wadi, M.V.S.T.—150264.	Wood, C.H.—149778.
Wadi, S.M.S.T.—150264.	Wseer, S.S.—150571.
Wagner & Co.—149853.	Wyler AG.—150230.
Wagh, A.S.—149788.	— Y —
Wards Construction (Overseas) Limited.—149781.	Yakovlev, V.Y.—149807.
Wavin, B.V.—149513.	Yamada Machinery Industrial Co., Ltd.—149787.
Wean United Inc.—149528, 149906, 150054, 150231, 150309, 150364.	Yokogawa Electric Works, Ltd.—149704.
Weatherford Lamb, Inc.—149810, 150221.	Yoshizawa, T.—150591.
Welding Institute, The.—150151.	Youdelis, W.V.—150270, 150271, 150287, 150288, 150289.
Welcome Foundation Ltd., The.—150229.	— Z —
Wenger Manufacturing.—149907.	Zellweger Ustar Ltd.—149808.
Werding, W.J.—150150.	Zharkov, B.B.—150543.
Western States Machine Co., The.—150237, 150388.	Zinn, R.C.—150821.
Westinghouse Brake and Signal Co., Ltd.—150400.	Zlehit Pri Bulgarskata Akademia Na Nekite.—149590.
Westinghouse Electric Corporation.—149575, 149598, 149636, 149647, 149650, 149698, 149718, 149720, 149847, 150015, 150206, 150290, 150322, 150329, 150371, 150382, 150490, 150562, 150707, 150718, 150733.	Zoecon Corporation.—149863.
Wheway Watson Holdings Ltd.—150708.	R. A. ACHARYA, Controller General of Patents, Designs and Trade Marks SHANTI KUMAR Joint Controller of Patents & Designs